

NACOmatic

Effective: 08-April-2010

Expires: 06-May-2010

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ID Min Alt#1 - 7	CVO - 384	MWH - 639
ID Min TO#1 - 15	CYS - 911	MYL - 111
MT Min Alt#1 - 154	DEW - 604	NOW - 688
MT Min TO#1 - 162	DGW - 923	NUW - 652
OR Min Alt#1 - 329	DIJ - 78	OKH - 665
OR Min TO#1 - 337	DLN - 223	OLF - 326
WA Min Alt#1 - 553	DLS - 548	OLM - 666
WA Min Rdr#1 - 561	EAN - 991	OMK - 673
WA Min TO#1 - 564	EAT - 840	ONO - 461
WY Min Alt#1 - 858	ECS - 963	ONP - 447
WY Min Rdr#1 - 866	ELN - 607	ORS - 606
WY Min TO#1 - 869	EMM - 955	OTH - 453
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32S - 323	EUG - 393	PDT - 464
3S8 - 407	EUL - 69	PDX - 481
3U3 - 185	EVW - 925	PIH - 130
42S - 310	FBR - 930	PLU - 692
6S5 - 246	FHR - 630	PNA - 964
6S8 - 278	GCC - 932	POY - 967
79S - 227	GCD - 410	PSC - 675
7S0 - 312	GDV - 232	PUW - 689
7V6 - 940	GEG - 776	PWD - 306
8S1 - 307	GEY - 937	PWT - 596
9S2 - 316	GGW - 228	RBG - 536
9S9 - 426	GNG - 81	RDM - 525
AFO - 892	GPI - 270	RIW - 970
ALW - 831	GRF - 622	RKS - 975
AOC - 38	GTF - 233	RLD - 699
AST - 361	HIO - 471	RNT - 693
AWO - 587	HLN - 253	RWL - 968
BDN - 377	HQM - 632	RXE - 137
BFI - 704	HRI - 408	S01 - 220
BHK - 186	HVR - 249	S12 - 360
BIL - 189	IDA - 92	S21 - 546
BKE - 374	JAC - 943	S33 - 428
BLI - 591	JER - 100	S39 - 521
BNO - 382	KLS - 637	S43 - 775
BOI - 45	LAR - 958	S50 - 589
BPI - 896	LGD - 422	S59 - 283
BTM - 209	LKV - 424	S67 - 127
BVS - 600	LMT - 412	S80 - 84
BYG - 898	LVM - 285	S87 - 153
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CII - 215	M46 - 216	SDY - 319
CLM - 684	M75 - 289	SEA - 718
CLS - 603	MFR - 433	SFF - 793
COD - 919	MLS - 291	SHN - 772
COE - 72	MMV - 429	SHR - 983
CPR - 900	MSO - 295	SKA - 803
CTB - 221	MUO - 116	SLE - 538

SMN	-	139
SPB	-	544
SUN	-	87
SZT	-	142
TCM	-	810
TIW	-	824
TMK	-	551
TOR	-	987
TTD	-	516
TWF	-	144
U02	-	40
U68	-	922
U76	-	125
UAO	-	368
VUO	-	830
W43	-	942
WRL	-	992
WYS	-	324
YKM	-	843

INSTRUMENT APPROACH PROCEDURE CHARTS

A IFR ALTERNATE AIRPORT MINIMUMS

Standard alternate minimums for non precision approaches are 800-2 (NDB, VOR, LOC, TACAN, LDA, VORTAC, VOR/DME, ASR or WAAS LNAV); for precision approaches 600-2 (ILS or PAR). Airports within this geographical area that require alternate minimums other than standard or alternate minimums with restrictions are listed below. NA - means alternate minimums are not authorized due to unmonitored facility or absence of weather reporting service. Civil pilots see FAR 91. IFR Alternate Airport Minimums: Ceiling and Visibility Minimums not applicable to USA/USN/USAF. Pilots must review the IFR Alternate Airport Minimums Notes for alternate airfield suitability.

NAME ALTERNATE MINIMUMS

ALBANY, OR

ALBANY MUNI VOR/DME or GPS-A
NA except for operators with approved weather reporting service.

ARLINGTON, WA

ARLINGTON MUNI NDB or GPS Rwy 34
Category D, 800-2½.
NA when Paine Field control tower closed.

ASTORIA, OR

ASTORIA RGNL RNAV (GPS) Rwy 26¹²
VOR Rwy 8³

- ¹NA when local weather not available.
²Categories A, B, 900-2; Category C, 900-2½;
Category D, 900-3.
³Category C, 800-2½; Category D, 900-3.

AURORA, OR

AURORA STATE LOC Rwy 17¹
RNAV (GPS) Rwy 17²³
RNAV (GPS) Rwy 35²

- ¹Category D, 800-2½.
²NA when local weather not available.
³Categories A, B, 900-2; Category C, 900-2½;
Category D, 900-2½.

BAKER, MT

BAKER MUNI NDB Rwy 13¹
NDB Rwy 31²

- ¹Categories A,B, 1100-2; Categories C,D,
1100-3.
²Categories A,B, 1000-2; Category C, 1000-2½;
Category D, 1000-3.

BAKER CITY, OR

BAKER CITY MUNI RNAV (GPS) Rwy 13¹²
VOR-A¹³
VOR/DME Rwy 13²⁴

- ¹NA when local weather not available.
²Category D, 900-2½.
³Categories A,B, 1900-2; Categories C,D,
1900-3.
⁴NA when control zone not in effect.

NAME ALTERNATE MINIMUMS

BELLINGHAM, WA

BELLINGHAM INTL ILS or LOC Rwy 16
RNAV (GPS) Rwy 16
NA when local weather not available.

BIG PINEY, WY

MILEY MEMORIAL FIELD VOR Rwy 31
Category D, 800-2½.

BILLINGS, MT

BILLINGS LOGAN
INTL NDB Rwy 10L¹
RNAV (GPS) Rwy 10L²
RNAV (GPS) Rwy 28R³

- ¹Category D, 800-2½.
²Categories A,B,C,D, 800-2½.
³Categories A,B, 900-2; Categories C,D,
900-3.

BOISE, ID

BOISE AIR TERMINAL(GOWEN
FIELD) LOC BC Rwy 28L
RNAV (GPS) Y Rwy 10R
RNAV (GPS) Y Rwy 28L
VOR/DME or TACAN Rwy 10L
VOR/DME or TACAN Rwy 28L
Category E, 1000-3.

BOZEMAN, MT

GALLATIN FIELD VOR Rwy 12
Category C, 800-2½; Category D, 800-2½.

BREMERTON, WA

BREMERTON NATIONAL .. RNAV (GPS) Rwy 1
RNAV (GPS) Rwy 19¹
NA when local weather not available.

- ¹Categories A,B, 1200-2; Categories C,D,
1200-3.

NAME ALTERNATE MINIMUMS

BUFFALO, WY

JOHNSON COUNTY **RNAV (GPS) Rwy 31¹**
VOR/DME Rwy 31²

NA when local weather not available.

¹Category D, 800-2¼.

²Category C, 800-2¼; Category D, 800-2½.

BURLEY, ID

BURLEY MUNI **VOR-A**
VOR/DME-B

NA when local weather not received.

BURLINGTON/MOUNT VERNON, WA

SKAGIT RGNL **NDB Rwy 10¹**
RNAV (GPS) Rwy 10
RNAV (GPS) Rwy 28

NA when local weather not available.

¹Categories A,B, 1300-2; Categories C,D, 1300-3.

BURNS, OR

BURNS MUNI **VOR Rwy 30**
Categories A, B, 1400-2; Categories C,D, 1400-3.

BUTTE, MT

BERT MOONEY **ILS Y Rwy 15¹**
LOC/DME Rwy 15²
RNAV (GPS) Y Rwy 15³
RNAV (GPS) Z Rwy 15,1200-2
VOR or GPS-B,1400-3
VOR/DME or GPS-A,3000-3

¹Categories A, B, C, 1200-4.

²Categories A,B, 1300-2; Categories C,D, 1300-3.

³Categories A,B, 1500-2; Categories C,D, 1500-3.

CALDWELL, ID

CALDWELL
INDUSTRIAL **RNAV (GPS) Rwy 12**
RNAV (GPS) Rwy 30

NA when local weather not available.

CASPER, WY

CASPER/NATRONA
COUNTY INTL **ILS or LOC Rwy 3**
ILS, Categories A,B, 800-2; Category C 800-2½; Category D, 800-2¼; Category E, 900-3.
LOC, Category C, 800-2½; Category D, 800-2¾; Category E, 900-3.

NAME ALTERNATE MINIMUMS

CHEYENNE, WY

CHEYENNE RGNL/JERRY OLSON
FIELD **ILS or LOC Rwy 27¹**
NDB Rwy 27¹
RNAV (GPS) Rwy 9²
RNAV (GPS) Rwy 13²
RNAV (GPS) Rwy 31²

¹NA when control tower closed.

²NA when local weather not available.

CODY, WY

YELLOWSTONE
REGIONAL **RNAV (GPS) Rwy 22¹**
VOR or GPS-A²

¹Category C, 800-2¼; Category D, 200-2¾.

²Category D, 900-3.

COEUR D'ALENE, ID

COEUR D'ALENE-PAPPY
BOYINGTON FIELD **ILS or LOC/DME Rwy 5**
NDB Rwy 5
RNAV (GPS) Rwy 5
VOR Rwy 5
VOR/DME Rwy 1

NA when local weather not available.

CORVALLIS, OR

CORVALLIS MUNI **VOR-A**
Categories A,B,1200-2; Categories C,D, 1200-3.

DEER PARK, WA

DEER PARK **RNAV (GPS) Rwy 34**
NA when local weather not available.

DILLON, MT

DILLON **VOR or GPS-A,1500-3**
VOR/DME or GPS-B
NA when Dillon altimeter setting not available.

DOUGLAS, WY

CONVERSE COUNTY **VOR Rwy 29**
Categories A,B, 1100-2; Categories C,D, 1100-3. DME standard.

EASTSOUND, WA

ORCAS ISLAND **RNAV (GPS)-A**
Categories A, B, 1100-2.
NA when local weather not available.

ELLENSBURG, WA

BOWERS FIELD **RNAV (GPS) Rwy 25¹**
RNAV (GPS) Rwy 29
VOR-B²

NA when local weather not available.

¹Category D, 800-2¼.

²Category A, 1500-2.

NAME ALTERNATE MINIMUMS

EPHRATA, WA

EPHRATA MUNI **RNAV (GPS) Rwy 3¹**
RNAV (GPS) Rwy 21²
VOR/DME Rwy 3¹
VOR Rwy 21¹

NA when local weather not available.

¹Category D, 1300-3.

²Category C, 800-2¼; Category D, 1300-3.

EUGENE, OR

MAHLON-SWEET

FIELD **ILS or LOC/DME Z Rwy 16R¹**
ILS or LOC Y Rwy 16R¹
ILS or LOC/DME Rwy 16L¹²
RNAV (GPS) Rwy 34R²
VOR or GPS-A³

¹NA when control tower closed.

²NA when local weather not available.

³Categories A,B, 900-2; Category C, 900-2¼;
 Category D, 900-2¾.

EVANSTON, WY

EVANSTON-UINTA COUNTY

BURNS FIELD **ILS or LOC/DME Rwy 23**
 Categories C,D, 700-2.

EVERETT, WA

SNOHOMISH COUNTY(PAINE

FIELD) **ILS or LOC/DME Rwy 16R**
 NA when control tower closed.
 NA when local weather not available.

FORT BENTON, MT

FORT BENTON **RNAV (GPS) Rwy 23**
 NA when local weather not available.

GILLETTE, WY

GILLETTE-CAMPBELL

COUNTY **ILS or LOC Rwy 34¹²**
RNAV (GPS) Rwy 16³
RNAV (GPS) Rwy 34⁴
VOR/DME Rwy 16⁵
VOR/DME Rwy 34¹

¹Categories A,B, 900-2; Category C, 900-2¼;
 Category D, 1000-3.

²NA when control tower closed.

³Categories A,B,C, 800-2¼; Category D,
 1000-3.

⁴Categories A,B,C,D, 1200-4.

⁵Category C, 800-2¼; Category D, 1000-3.

GLASGOW, MT

WOKAL FIELD/

GLASGOW INTL **VOR Rwy 12**
 Categories A,B, 900-2; Categories C,D, 900-3.
 VOR/DME standard.

NAME ALTERNATE MINIMUMS

GLENDIVE, MT

DAWSON

COMMUNITY **NDB or GPS Rwy 12,900-2¼**

GOODING, ID

GOODING MUNI **RNAV (GPS) Rwy 7**
RNAV (GPS) Rwy 25

NA when local weather not available.

GRAY AAF (KGRF)

FORT LEWIS, WA **NDB Rwy 15**
NDB Rwy 33
ILS or LOC Rwy 15
COPTER NDB Rwy 15

NA when control tower closed.

GREAT FALLS, MT

GREAT FALLS INTL **NDB Rwy 34**
 Category D, 800-2¼.

GREYBULL, WY

SOUTH BIG HORN COUNTY **RNAV (GPS)-A**
RNAV (GPS) Rwy 33¹

NA when local weather not available.

¹Category D, 1200-3.

HAILEY, ID

FRIEDMAN

MEMORIAL **RNAV (GPS) W Rwy 31**
 Categories A,B, 1900-2; Category C, 1900-3.

HAVRE, MT

HAVRE CITY-COUNTY **VOR Rwy 26**
 Categories A, B, 900-2; Category C, 900-2¾;
 Category D, 900-3.

NAME ALTERNATE MINIMUMS

HELENA, MT

HELENA RGNL **ILS or LOC Y Rwy 27¹²**
ILS or LOC Z Rwy 27¹²
LOC/DME BC-C¹³
NDB-D¹⁴
RNAV (GPS) Y Rwy 9⁵
RNAV (GPS) Rwy 23⁶
RNAV (GPS) X Rwy 27⁵
RNAV (RNP) Z Rwy 9⁷
RNAV (RNP) Y Rwy 27⁷
RNAV (RNP) Z Rwy 27⁷⁹
VOR-A⁸
VOR/DME-B⁸

¹NA when control tower closed.

²Categories A, B, 1600-2; Categories C, D, E, 1600-3.

³Categories A, B, 1300-2; Categories C, D, 1300-3.

⁴Category A, 1200-2.

⁵Categories A, B, 1600-2; Categories C, D, 1600-3.

⁶Categories A, B, 900-2; Category C, 900-2½; Category D, 900-3.

⁷NA when local weather not available.

⁸Categories A, B, 2900-2; Categories C, D, 2900-3.

⁹1000-4.

HOQUIAM, WA

BOWERMAN **RNAV (GPS) Rwy 24¹**
VOR/DME Rwy 24²
VOR Rwy 6¹

¹Category D, 800-2¼.

²Categories A,B, 900-2; Category C, 900-2¾; Category D, 900-3.

IDAHO FALLS, ID

IDAHO FALLS RGNL **ILS or LOC Rwy 20¹**
LOC BC Rwy 2²
RNAV (GPS) Rwy 20³
VOR Rwy 20³

¹ILS, Category E, 700-2½. LOC, Category E, 800-2½.

²Category E, 800-2½.

³NA when local weather not available.

JACKSON, WY

JACKSON HOLE **RNAV (GPS) X Rwy 1¹**
RNAV (GPS) Y Rwy 19¹
RNAV (RNP) Y Rwy 1, 10681200-4
VOR/DME Rwy 1²
VOR/DME Rwy 19³

¹Categories A,B, 1200-2; Categories C,D, 1200-3.

²Categories A,B,1000-2; Categories C,D, 1000-3.

³Categories A,B,1400-2; Categories C,D, 1400-3.

NAME ALTERNATE MINIMUMS

JEROME, ID

JEROME COUNTY **RNAV (GPS) Rwy 9**
RNAV (GPS) Rwy 27¹
VOR/DME-A

NA when local weather not available.

¹Categories A, B, 1300-2; Categories C, D, 1300-3.

JOHN DAY, OR

GRANT COUNTY RGNL/
OGILVIE FIELD **RNAV (GPS) Y Rwy 9**
Category B, 900-2; Category C, 900-2½.

KALISPELL, MT

GLACIER PARK INTL **ILS or LOC Rwy 2¹**
RNAV (RNP) Y Rwy 2²
RNAV (RNP) Rwy 20, 800-2½²

¹Categories C, D, 700-2.

²NA when local weather not available.

KELSO, WA

SOUTHWEST
WASHINGTON RGNL **RNAV (GPS) Rwy 12**
Categories A, B, 900-2.

KLAMATH FALLS, OR

KLAMATH FALLS **ILS or LOC Rwy 32¹**
RNAV (GPS) Rwy 14²
VOR/DME or TACAN Rwy 14³
VOR/DME or TACAN Rwy 32⁴
VOR or GPS-B, 2100-3

¹Categories A,B, 900-2; Category C, 900-2¾; Category D, 1000-3. LOC, DME required.

²Categories A,B, 900-2; Category C, 900-2¾; Category D, 1000-3.

³Categories C,D, 1000-3; Category E, NA.

⁴Category B, 900-2; Categories C,D, 1000-3; Category E, 1500-3.

LAKEVIEW, OR

LAKE COUNTY **VOR/DME-A**
Categories A,B, 900-2; Category C, 900-2½; Category D, 900-2¾.

LEWISTON, ID

LEWISTON-NEZ PERCE
COUNTY **ILS Rwy 26¹²**
RNAV (GPS) Rwy 9³
RNAV (GPS) Rwy 12³
RNAV (GPS) Rwy 26³
VOR Rwy 8⁴
VOR Rwy 26³

¹ILS, Category D, 800-2¼.

²NA when control tower closed.

³Category D, 800-2¼.

⁴Categories A, B, 1100-2; Categories C, D, 1100-3.

NAME ALTERNATE MINIMUMS

LEWISTOWN, MT

LEWISTOWN MUNI RNAV (GPS) Rwy 7
VOR Rwy 7

Category D, 800-2½.

LIVINGSTON, MT

MISSION FIELD VOR/DME-B¹
VOR-A²

¹Categories A, B, 900-2; Category C, 900-2½;
Category D, 1000-3.

²Categories A, B, 2200-2; Categories C, D,
2200-3.

MC CALL, ID

MC CALL MUNI RNAV (GPS) Rwy 16¹
RNAV (GPS) Y Rwy 34²
RNAV (GPS) Z Rwy 34³⁴

¹Category C, 900-2½.

²Categories A, B, 1600-2; Categories C, D,
1600-3.

³NA when local weather not available.

⁴Category C, 900-2½; Category D, 1000-3.

MC MINNVILLE, OR

MC MINNVILLE MUNI ILS or LOC Rwy 22
RNAV (GPS) Rwy 4
RNAV (GPS) Rwy 22
VOR/DME-B

NA when local weather not available.

Category D 800-2½.

MEDFORD, OR

ROGUE VALLEY INTL-
MEDFORD ILS or LOC/DME Rwy 14¹²
LOC/DME BC-B²³
RNAV (GPS)-D³
RNAV (GPS) Rwy 14⁴
VOR-A⁵
VOR/DME-C³
VOR/DME Rwy 14⁵

¹ILS, Categories A, B, C, 700-2; Category D,
900-2½. LOC, Category D, 900-2½.

²NA when control tower closed.

³Categories A, B, 2300-2; Categories C, D,
2300-3.

⁴Categories A, B, 1100-2; Categories C, D,
1100-3.

⁵Categories A, B, 1400-2; Category C, D
1400-3.

NAME ALTERNATE MINIMUMS

MISSOULA, MT

MISSOULA INTL ILS Rwy 11¹
RNAV (GPS) Y Rwy 11²³
RNAV (RNP) Z Rwy 11²,800-2½
VOR/DME or GPS-A,2000-3
VOR/DME or GPS-B,2000-3

¹ILS, 1600-6. LOC,NA.

²NA when local weather not available.

³Categories A, B, 1900-2; Categories C, D,
1900-3.

MOSES LAKE, WA

GRANT COUNTY INTL ... ILS or LOC Rwy 32R¹
NDB Rwy 32R²
RNAV (GPS) Rwy 4¹
RNAV (GPS) Rwy 14L¹
RNAV (GPS) Rwy 22¹
VOR Rwy 4²
VOR -1 Rwy 14L²
VOR -3 Rwy 14L²
VOR Rwy 22²
VOR Rwy 32R²

¹NA when local weather not available.

²NA when control tower closed.

NEWCASTLE, WY

MONDELL FIELD VOR or GPS Rwy 31
NA except for operators with approved weather
reporting service.
Categories A,B, 900-2;Categories C,D, 900-3.

NORTH BEND, OR

SOUTHWEST OREGON
RGNL ILS or LOC Rwy 4¹
NDB or GPS Rwy 4²
VOR or GPS-A³
VOR/DME or GPS-B⁴
VOR/DME Rwy 4⁴

¹ILS, Categories A,B, 800-2; Category C, 900-
2½, Category D,1000-3. LOC, Category C,
900-2½, Category D,1000-3.

²Category C, 900-2½;Category D, 1000-3.

³Categories A,B, 1100-2; Categories C,D,
1100-3.

⁴Categories C,D, 1000-3.

OAK HARBOR, WA

AJ EISENBERG RNAV (GPS) Rwy 7
NA when local weather not available.

OLYMPIA, WA

OLYMPIA RGNL ILS or LOC Rwy 17¹²³
RNAV (GPS) Rwy 17²
RNAV (GPS) Rwy 35²
VOR-A²⁴
VOR/DME Rwy 35²

¹ILS, Categories C, D, 700-2.

²NA when local weather not available.



NAME ALTERNATE MINIMUMS
ONTARIO, OR
 ONTARIO MUNI RNAV (GPS) Rwy 14
 RNAV (GPS) Rwy 32
 NA when local weather not available.

PASCO, WA
 TRI-CITIES ILS or LOC Rwy 21R¹²
 RNAV (GPS) Rwy 3L
 RNAV (GPS) Rwy 12
 RNAV (GPS) Rwy 21R
 RNAV (GPS) Rwy 30
 VOR Rwy 21R³
 VOR/DME Rwy 30
 NA when local weather not available.

- ¹NA when control tower closed.
²ILS, Categories A,B,C, 700-2; Category D, 700-2½. LOC, Category D, 800-2½.
³Category D, 800-2½.

PENDLETON, OR
 EASTERN OREGON RGNL AT
 PENDLETON ILS or LOC/DME Rwy 25¹
 RNAV (GPS) Rwy 7
 RNAV (GPS) Rwy 11
 RNAV (GPS) Rwy 25
 RNAV (GPS) Rwy 29
 VOR Rwy 7
 NA when local weather not available.
¹ILS, NA when control tower closed.

PINEDALE, WY
 PINEDALE/RALPH WENZ
 FIELD NDB-A¹
 RNAV (GPS) Rwy 11²
 RNAV (GPS) Rwy 29²
 NA when local weather not available.
¹Category C, 800-2½; Category D, 800-2½.
²Category D, 800-2½.

POCATELLO, ID
 POCATELLO RGNL ILS or LOC Rwy 21¹
 RNAV (GPS) Rwy 3²
 RNAV (GPS) Rwy 21²
 NA when control zone not in effect.
²NA when local weather not available.

PORT ANGELES, WA
 WILLIAM R
 FAIRCHILD INTL ILS or LOC Rwy 8
 RNAV (GPS) Rwy 8¹
 RNAV (GPS) Rwy 26
 NA when local weather not available.
¹Categories A, B, 1000-2; Categories C, D, 1000-3.

NAME ALTERNATE MINIMUMS
PORTLAND, OR
 PORTLAND INTL ILS or LOC Rwy 10L¹
 ILS or LOC Rwy 10R²
 ILS or LOC Rwy 28L³
 ILS or LOC Rwy 28R⁴
 LOC/DME Rwy 21⁵
 RNAV (GPS) Rwy 10L⁵
 RNAV (GPS) Rwy 10R⁶
 RNAV (GPS) Rwy 12⁷
 RNAV (GPS) Rwy 28L⁸
 RNAV (GPS) Rwy 28R⁹
 VOR/DME Rwy 21⁵
 VOR-A⁹
 VOR Rwy 28R⁵

- ¹ILS, Category A, 700-2; Categories B,C, 800-2; Category D, 1000-3. LOC, Category D, 1000-3.
²Categories A,B, 900-2; Category C, 900-2½; Category D, 1000-3; Category E, 1100-3.
³ILS, Category A, 700-2; Categories B,C, 800-2; Category D, 1000-3; Category E, 1100-3. LOC, Category D, 1000-3; Category E, 1100-3.
⁴ILS, Category A, 700-2; Categories B,C, 800-2; Category D, 1000-3. LOC, Category D, 1000-3.
⁵Category D, 1000-3.
⁶Categories A,B,C 800-5; Category D, 1000-5.
⁷NA when local weather not available.
⁸Category D, 1000-3.
⁹Categories A,B, 900-2; Category C, 900-2½; Category D, 1000-3.

PORTLAND-HILLSBORO .. ILS or LOC Rwy 12¹
 RNAV (GPS) Rwy 12²
¹Categories A,B, 1000-2; Category C, 1000-2½; Category D, 1000-3.
²NA when local weather not available.

PORTLAND-TROUTDALE NDB or GPS-A
 Categories A,B, 1100-2; Category C, 1100-3; Category D, 1300-3.

PULLMAN/MOSCOW, WA
 PULLMAN/MOSCOW
 MUNI RNAV (GPS) Rwy 5,800-2½

RAWLINS, WY
 RAWLINS MUNI/
 HARVEY FIELD RNAV (GPS) Rwy 22¹
 VOR/DME Rwy 22²
¹Categories A, B, 900-2; Category C, 900-2½; Category D, 900-2½.
²Categories A, B, 1000-2; Category C, 1000-2½; Category D, 1000-3.

NAME ALTERNATE MINIMUMS

REDMOND, OR

ROBERTS FIELD **ILS or LOC Rwy 22¹**
VOR/DME Rwy 22²

¹ILS, LOC, Category D, 800-2½; Category E, 800-2½.

²Category A, B, 1000-2; Category C, 1000-2¾; Category D, E, 1000-3.

RENTON, WA

RENTON MUNI **NDB Rwy 16¹**
RNAV (GPS) Y Rwy 16²
RNAV (GPS) Z Rwy 16³

NA when local weather not available.

¹Categories A, B, 1000-2; Categories C, D, 1000-3.

²Categories A, B, 900-2; Category C, 900-2¾; Category D, 900-3.

³Categories A, B, 900-2.

REXBURG, ID

REXBURG-MADISON
COUNTY **RNAV (GPS) Rwy 35**
NA when local weather not available.
Category D, 800-2½.

RICHLAND, WA

RICHLAND **NDB Rwy 19¹**
RNAV (GPS) Rwy 19¹
RNAV (GPS) Rwy 26¹
VOR/DME-A²
VOR Rwy 26¹

¹Category D, 800-2½.

²Categories A, B, 900-2; Category C, 900-2¾; Category D, 900-3.

RIVERTON, WY

RIVERTON RGNL **ILS or LOC Rwy 28**
RNAV (GPS) Rwy 10
RNAV (GPS) Rwy 28
VOR Rwy 10
VOR Rwy 28

NA when local weather not available.

ROCK SPRINGS, WY

ROCK SPRINGS-SWEETWATER
COUNTY **VOR-B**
Category D, 800-2½.

ROSEBURG, OR

ROSEBURG RGNL **RNAV (GPS)-B**
NA when local weather not available.
Categories A, B, 1200-2; Category C, 1200-3;
Category D, 1400-3.

NAME ALTERNATE MINIMUMS

SALEM, OR

MCNARY FIELD **ILS or LOC Rwy 31¹²**
LOC/DME Rwy 31³
RNAV (GPS) Rwy 31¹³

¹NA when local weather not available.

²ILS, Categories A, B, 800-2; Category C, 800-2½; Category D, 800-2½. LOC, Category C, 800-2½; Category D, 800-2½.

³Category D, 800-2½.

SCAPPOOSE, OR

SCAPPOOSE INDUSTRIAL
AIRPARK **VOR/DME or GPS-A**
Category B, 900-2; Category C, 1000-2¾;
Category D 1300-3.

SEATTLE, WA

BOEING FIELD-KING COUNTY
INTL **ILS Rwy 13R¹**
ILS Rwy 31L²
LOC/DME Rwy 13R³
RNAV (GPS) Y Rwy 13R⁴
RNAV (RNP) Z Rwy 13R⁵

¹ILS, Category A, 800-2; Category B, 900-2; Category C, 900-2½; Category D, 1000-3.

²Category A, 800-2; Category B, 900-2; Category C, 900-2½; Category D, 1000-3.

³Category B, 900-2; Category C, 900-2½; Category D, 1000-3.

⁴Category B, 900-2; Category C, 900-2¾; Category D, 1000-3.

⁵Categories A, B, C, D, 800-2½.

SHERIDAN, WY

SHERIDAN
COUNTY **ILS or LOC/DME Rwy 32**
RNAV (GPS) Rwy 14
RNAV (GPS) Rwy 32
VOR Rwy 14

NA when local weather not received.
Category D, 800-2½.

SIDNEY, MT

SIDNEY-RICHLAND MUNI **NDB Rwy 1¹**
NDB Rwy 19²

¹Category D, 800-2½.

²Categories C, D, 800-2½.

NAME ALTERNATE MINIMUMS

SPOKANE, WA

FELTS FIELD **ILS/DME Rwy 21R¹**
RNAV (GPS)-A²
RNAV (GPS) Rwy 3L²
VOR Rwy 3L^{3,4}

- ¹Categories A,B, 1000-2; Category C, 1000-2½.
²Categories A,B, 1000-2; Category C, 1000-2½; Category D, 1000-3.
³Categories A, B, 1000-2; Categories C, D, 1000-3.
⁴NA when local weather not available.

SPOKANE INTL **ILS or LOC Rwy 3¹**
ILS or LOC/DME Rwy 21¹
VOR Rwy 3²

- ¹ILS, Category D, 700-2.
²Category E, 800-2½.

TACOMA, WA

TACOMA NARROWS **ILS Rwy 17¹**
NDB Rwy 35¹
RNAV (GPS) Rwy 17^{1,2}
RNAV (GPS) Rwy 35^{2,3}

- ¹NA when control tower closed.
²Category D, 800-2½.
³NA when local weather not available.

THE DALLES, OR

COLUMBIA GEORGE RGNL/
THE DALLES MUNI **RNAV (GPS)-A**
Categories A,B, 1100-2; Category C, 1100-3;
Category D, 1200-3.

TWIN FALLS, ID

JOSLIN FIELD-MAGIC VALLEY
RGNL **ILS or LOC Rwy 25¹**
NDB Rwy 25
RNAV (GPS) Rwy 7
RNAV (GPS) Rwy 25
VOR Rwy 7²

- NA when local weather not available.
¹ILS, Category D, 700-2; Category E, 900-3.
LOC, Category E, 900-3.
²Category C, 800-2½; Category D, 800-2½.

WALLA WALLA, WA

WALLA WALLA RGNL **ILS or LOC Rwy 20¹**
NDB Rwy 20, 1000-3
RNAV (GPS) Rwy 2^{2,3}
RNAV (GPS) Rwy 16²
RNAV (GPS) Rwy 20²
VOR/DME Rwy 2²

- ¹ILS, LOC, Categories A,B, 1100-2; Categories C, D, 1100-3.
²Category D, 800-2½.
³NA when local weather not available.

NAME ALTERNATE MINIMUMS

WENATCHEE, WA

PANGBORN
MEMORIAL **ILS Y Rwy 12, 1300-4**
VOR/DME-C^{1,2}
VOR/DME-A³

- ¹NA when local weather not available.
²Categories A, B, 1500-2; Categories C, D, 1500-3.
³Categories A, B, 2000-2; Categories C, D, 2000-3.

WOLF POINT, MT

L.M. CLAYTON **RNAV (GPS) Rwy 11**
RNAV (GPS) Rwy 29
NA when local weather not available.

WORLAND, WY

WORLAND MUNI **VOR or GPS Rwy 16**
Categories C,D, 800-2½.

YAKIMA, WA

YAKIMA AIR TERMINAL/
MCALLISTER FIELD **ILS Y Rwy 27^{1,2}**
ILS Z Rwy 27^{1,3}
LOC/DME BC-B^{1,4}
RNAV (GPS) Y Rwy 27⁵
RNAV (GPS) Z Rwy 27⁴
VOR/DME or TACAN Rwy 27⁶
VOR-A⁷

- ¹NA when control tower closed.
²ILS, Categories A, B, 600-2½; Category C, 700-2½; Category D, 800-2½.
³Category C, 700-2; Category D, 800-2½
⁴Category D, 800-2½.
⁵Category C, 800-2½; Category D, 800-2½.
⁶Categories A, B, 1100-2; Categories C, D, 1100-3.
⁷Category C, 800-2½; Category D, 800-2½.

INSTRUMENT APPROACH PROCEDURE CHARTS

IFR TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

Civil Airports and Selected Military Airports

ALL USERS: Airports that have Departure Procedures (DPs) designed specifically to assist pilots in avoiding obstacles during the climb to the minimum enroute altitude, and/or airports that have civil IFR take-off minimums other than standard, are listed below. Take-off Minimums and Departure Procedures apply to all runways unless otherwise specified. Altitudes, unless otherwise indicated, are minimum altitudes in MSL.

DPs specifically designed for obstacle avoidance are referred to as Obstacle Departure Procedures (ODPs) and are described below in text, or published separately as a graphic procedure. If the (Obstacle) DP is published as a graphic procedure, its name will be listed below, and it can be found in either this volume (civil), or a separate Departure Procedure volume (military), as appropriate. Users will recognize graphic obstacle DPs by the term "(OBSTACLE)" included in the procedure title; e.g., TETON TWO (OBSTACLE). If not assigned a SID or radar vector by ATC, an ODP may be flown without ATC clearance to ensure obstacle clearance.

Graphic DPs designed by ATC to standardize traffic flows, ensure aircraft separation and enhance capacity are referred to as "Standard Instrument Departures (SIDs)". SIDs also provide obstacle clearance and are published under the appropriate airport section. ATC clearance must be received prior to flying a SID.

CIVIL USERS NOTE: Title 14 Code of Federal Regulations Part 91 prescribes standard take-off rules and establishes take-off minimums for certain operators as follows: (1) Aircraft having two engines or less - one statute mile. (2) Aircraft having more than two engines - one-half statute mile. These standard minima apply in the absence of any different minima listed below.

MILITARY USERS NOTE: Civil (nonstandard) take-off minima are published below. For military take-off minima, refer to appropriate service directives.

NAME TAKE-OFF MINIMUMS

AFTON, WY

AFTON MUNI

DEPARTURE PROCEDURE: **Rwy 16**, Use LUNDI DEPARTURE. **Rwy 34**, use AFTON DEPARTURE.

ALBANY, OR

ALBANY MUNI

DEPARTURE PROCEDURE: **Rwy 16**, turn right. **Rwy 34**, turn left. All aircraft climb direct CVO VOR/DME and continue climb in CVO VOR/DME holding pattern, (E, right turns, 261° inbound) to cross CVO VOR/DME at or above 3000.

ANACONDA, MT

BOWMAN FIELD

TAKE-OFF MINIMUMS: **Rwy 4**, std. w/min. climb of 417' per NM to 9000, or 2800-3 for climb in visual conditions. **Rwy 17**, std. w/min. climb of 321' per NM to 10200, or 2800-3 for climb in visual conditions. **Rwy 22**, NA - obstacles. **Rwy 35**, std. w/min. climb of 369' per NM to 9100, or 2800-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 4, 35**, climbing right turn to 10200 via heading 130° and CPN VOR/DME R-340 to CPN VOR/DME, continue climb-in-hold to 10200 (north, left turn, 166° inbound), or for climb in visual conditions, cross Bowman Field Airport at or above 7700 then proceed via CPN R-309 to CPN VOR/DME, continue climb-in-hold to 10200 (north, left turn, 166° inbound).

NAME TAKE-OFF MINIMUMS

BOWMAN FIELD(CON'T)

Rwy 17, climbing left turn to 10200 via heading 100° and CPN VOR/DME R-335 to CPN VOR/DME, continue climb-in-hold to 10200 (north, left turn, 166° inbound), or for climb in visual conditions, cross Bowman Field Airport at or above 7700 then proceed via CPN R-309 to CPN VOR/DME, continue climb-in-hold to 10200 (north, left turn, 166° inbound).

NOTE: **Rwy 17**, multiple trees beginning 865' from departure end of runway, 243' left of centerline, up to 70' AGL/5097' MSL. Rod on hangar 570' from departure end of runway, 278' left of centerline, 54' AGL/5054' MSL. Multiple trees beginning 787' from departure end of runway, 165' right of centerline, up to 70' AGL/5098' MSL. Multiple transmission lines beginning 4602' from departure end of runway, 1664' right of centerline, 80' AGL/5159' MSL. **Rwy 35**, multiple transmission lines beginning 2242' from departure end of runway, 964' left of centerline, up to 80' AGL/5159' MSL.

ARCO, ID

ARCO-BUTTE COUNTY (AOC)

AMDT 1 08157 (FAA)

TAKE-OFF MINIMUMS: **Rwy 6**, NA - Obstacles. DEPARTURE PROCEDURE: Use JATTS DEPARTURE.

ARLINGTON, WA**ARLINGTON MUNI**

TAKE-OFF MINIMUMS: **Rwy 11**, 600-2 or std. with a min. climb of 350' per NM to 700. **Rwy 34**, 500-2 or std. with a min. climb of 260' per NM to 700.

DEPARTURE PROCEDURE: **Rwy 11**, turn right.

Rwy 16, climb direct to WATON LOM. **Rwys 29, 34**, turn left. **All aircraft** climb direct to WATON LOM. Aircraft departing WATON LOM on bearings 150° CW 200° and bearings 260° CW 340° from WATON LOM continue climb on course. Aircraft departing WATON LOM on bearings 340° CW 150° from WATON LOM climb in holding pattern (S, left turns, 339° inbound) to 4500 then continue climb on course. Aircraft departing WATON LOM on bearings 200° CW 260° from WATON LOM climb in holding pattern (S, left turns, 339° inbound) to 1500 then continue climb on course.

ASTORIA, OR**ASTORIA RGNL**

TAKE-OFF MINIMUMS: **Rwy 8**, 800-3 or std. with a min. climb of 320' per NM to 900. **Rwy 13**, 700-2 or std. with a min. climb of 350' per NM to 800.

DEPARTURE PROCEDURE: **Rwys 8, 31**, turn left.

Rwy 13, climb runway heading to 800 then climbing right turn. **Rwy 26**, turn right. Aircraft departing northwestbound climb via AST R-290 on course.

All other aircraft climb to 1500 or above via AST R-290 then left turn to AST VOR/DME and continue climbing on course.

AUBURN, WA**AUBURN MUNI**

DEPARTURE PROCEDURE: Use AUBURN DEPARTURE.

AURORA, OR**AURORA STATE**

DEPARTURE PROCEDURE: **Rwy 17**, turn right,

thence... **Rwy 35**, turn left, thence...

...Aircraft proceeding via V23 climb on course; All others climb in UBG VOR/DME holding pattern (hold south, left turn, 003° inbound) to cross UBG VOR/DME at or above MEA/MCA for direction of flight.

NOTE: **Rwy 17**, multiple trees 31' from departure end of runway, 273' right of centerline, up to 90' AGL/270' MSL.

Multiple trees beginning 979' from departure end of runway, 247' right of centerline up to 113' AGL/316' MSL.

Road 254' from departure end of runway, 350' left of centerline, 16' AGL/209' MSL. **Rwy 35**, multiple trees and road beginning 31' from departure end of runway, 163' left of centerline, up to 138' AGL/329' MSL.

Multiple trees beginning 973' from departure end of runway, 281' right of centerline, up to 58' AGL/253' MSL.

BAKER, MT**BAKER MUNI**

NOTE: **Rwy 13**, 51' derrick 2200' from departure end of runway on centerline. 100' trees south of airport, near runway, various locations. **Rwy 31**, 146' antenna on tower 4000' from departure end of runway, 1800' left of centerline. 114' rod on OL antenna 3800' from departure end of runway on centerline.

BAKER CITY, OR**BAKER CITY MUNI**

TAKE-OFF MINIMUMS: **Rwy 8**, 900-2 or std. with a min. climb of 315' per NM to 6000, (788' per min. at 150K, 1050' per min. at 200K, 1313' per min. at 250K).

Rwy 13, 1400-2 or std. with a min. climb of 310' per NM to 6000 (775' per min. at 150K, 1033' per min. at 200K, 1292' per min. at 250K). **Rwy 17, NA. Rwy 31**, 1300-2 or std. with a min. climb of 240' per NM to 6000 (600' per min. at 150K, 800' per min. at 200K, 1000' per min. at 250K). **Rwy 35**, CAT C, D 1000-2; or std. with a min. climb of 240' per NM to 6000 (600' per min. at 150K, 800' per min. at 200K, 1000' per min. at 250K).

DEPARTURE PROCEDURE: **Rwys 8, 13**, turn left.

Rwys 26, 31, 35, turn right. **All aircraft** climb direct BKE VOR/DME. Continue climb in BKE holding pattern (SE, right turns, 298° inbound) to cross BKE VOR/DME at or above MCA or MEA for route of flight.

BELLINGHAM, WA**BELLINGHAM INTL**

DEPARTURE PROCEDURE: **Rwy 16**, climb heading 160° to 600, then climbing right turn direct HUH VORTAC. Do not exceed 210 KIAS until established northbound. **Rwy 34**, climb heading 340° to 600, then climbing left turn to intercept HUH R-145 to HUH VORTAC, continue climb in holding pattern (northwest, right turn, 149° inbound) to MEA as appropriate for direction of flight.

NOTE: **Rwy 16**, lighted windsock 9' from departure end of runway, 259' right of centerline, 16' AGL/181' MSL.

Multiple trees beginning 747' from departure end of runway, 405' right of centerline, up to 68' AGL/213' MSL.

Multiple trees beginning 1128' from departure end of runway, 57' left of centerline, up to 104' AGL/249' MSL.

Rwy 34, lighted windsock 93' from departure end of runway, 516' right of centerline, 27' AGL/169' MSL. multiple trees beginning 1372' from departure end of runway, 619' right of centerline, up to 134' AGL/246' MSL.

BEND, OR**BEND MUNI (BDN)****AMDT 4 09183 (FAA)**

DEPARTURE PROCEDURE: Use BEND DEPARTURE.

BIG PINEY, WY**MILEY MEMORIAL FIELD**

TAKE-OFF MINIMUMS: **Rwys 8, 26**, NA.

DEPARTURE PROCEDURE: **Rwy 13**, climb to 8400 via BPI R-124. **Rwy 31**, climb to 10800 via BPI R-320 thence all aircraft climb on course.

BILLINGS, MT

BILLINGS LOGAN INTL (BIL)

AMDT 5 08101 (FAA)

TAKE-OFF MINIMUMS: **Rwy 10R**, NA- Obstacles.DEPARTURE PROCEDURE: **Rwy 10L**, Climb heading 098° to 4600 before turning right.

NOTE: **Rwy 10L**, fence 466' from departure end of runway, 535' right of centerline, 11' AGL/3511' MSL, cars on road, beginning from 624' from departure end of runway, 427' right of centerline, 15' AGL/3523' MSL, ground beginning 21' from departure end of runway, 499' right of centerline, 0' AGL/3505' MSL. **Rwy 25**, airport security fence, abeam departure end of runway, 500' left of centerline, 11' AGL/3672' MSL to 1200' from departure end of runway, abeam rwy centerline, 11' AGL/3672' MSL.

BLACKFOOT, ID

MCCARLEY FIELD

DEPARTURE PROCEDURE: **Rwy 1**, climb to 7000 (or higher assigned altitude) direct IDA VOR/DME, before proceeding on course. **Rwy 19**, climb to 7000 (or higher assigned altitude) direct PIH VORTAC, before proceeding on course.

BOISE, ID

BOISE AIR TERMINAL / GOWEN FIELD (BOI)

AMDT 6 10042 (FAA)

DEPARTURE PROCEDURE: Use GOWEN DEPARTURE.

BOZEMAN, MT

GALLATIN FIELD (BZN)

AMDT 3 08213 (FAA)

TAKE-OFF MINIMUMS: **Rwys 3, 21**, NA-ATC.

DEPARTURE PROCEDURE: **Rwys 12, 30**, use BOZEMAN DEPARTURE.

BREMERTON, WA

BREMERTON NATIONAL (PWT)

AMDT 3 08045 (FAA)

TAKE-OFF MINIMUMS: **Rwy 1**, 300-1 or std. w/min. climb of 410' per NM to 700.

DEPARTURE PROCEDURE: **Rwy 1**, Climbing right turn to 6000 direct CAN NDB, Thence... **Rwy 19**, Climb to 6000 direct CAN NDB, thence...

...Continue climb-in-hold (S, LT, 013° inbound) to 6000 before proceeding on course.

NOTES: **Rwy 1**, Multiple bushes 380' from departure end of runway, 522' left of centerline, up to 17' AGL/456' MSL, multiple trees and poles beginning 1210' from departure end of runway, 622' left of centerline, up to 100' AGL/561' MSL, multiple trees and bushes 1012' from departure end of runway, 708' right of centerline, up to 100' AGL/495' MSL. **Rwy 19**, Multiple trees beginning 176' from departure end of runway, 337' left of centerline, up to 100' AGL/514' MSL, multiple trees beginning 371' from departure end of runway, 277' right of centerline, up to 100' AGL/548' MSL.

BUFFALO, WY

JOHNSON COUNTY

TAKE-OFF MINIMUMS: Northbound aircraft:

Rwys 13, 31, 2400-2 or std. with a min. climb of 300' per NM to 7500. Southbound aircraft: **Rwy 31**, 400-2 or std. with a min climb of 300' per NM to 6000.

DEPARTURE PROCEDURE: Northbound aircraft:

Rwy 13, turn left. **Rwy 31**, climb straight ahead.**All aircraft** proceed via SHR R-139 to SHR VORTAC.Southbound aircraft: **Rwy 13**, climb straight ahead.**Rwy 31**, turn right. **All aircraft** proceed via CZI R-319 to CZI VOR/DME.**BURLEY, ID**

BURLEY MUNI (BYI)

AMDT 5 10042 (FAA)

TAKE-OFF MINIMUMS: **Rwy 24**, 300-1½ or std. w/min. climb of 428' per NM to 4500.

DEPARTURE PROCEDURE: **Rwy 2**, climbing left turn direct BYI VOR/DME, continue climb in BYI VOR/DME holding pattern (hold Northwest right turns, 125° inbound) to cross BYI VOR/DME at or above MEA for route of flight. **Rwy 6**, climbing left turn direct BYI VOR/DME, continue climb in BYI VOR/DME holding pattern (hold Northwest right turns, 125° inbound) to cross BYI VOR/DME at or above MEA for route of flight. **Rwy 20**, climbing right turn direct BYI VOR/DME, continue climb in BYI VOR/DME holding pattern (hold Northwest right turns, 125° inbound) to cross BYI VOR/DME at or above MEA for route of flight. **Rwy 24**, climbing right turn direct BYI VOR/DME, continue climb in BYI VOR/DME holding pattern (hold Northwest right turns, 125° inbound) to cross BYI VOR/DME at or above MEA for route of flight.

NOTE: **Rwy 2**, obstruction light on bridge 252' from DER, 513' left of centerline, 57' AGL/4195' MSL. Trees beginning 686' from DER, 201' right of centerline, up to 35' AGL/4184' MSL. Tree 694' from DER, 375' left of centerline, 29' AGL/4178' MSL. Obstruction light on building 736' from DER, 188' left of centerline, 11' AGL/4161' MSL. Tower 803' from DER, 590' left of centerline, 55' AGL/4204' MSL. Vehicles on road beginning 857' from DER, 1' right of centerline, up to 17' AGL/4168' MSL. Poles beginning 1226' from DER, 549' left of centerline, up to 72' AGL/4222' MSL. Building vent 1240' from DER, 164' left of centerline, 27' AGL/4177' MSL. Stack 2206' from DER, 856' right of centerline, 86' AGL/4236' MSL. Stack 2573' from DER, 614' left of centerline, 86' AGL/4236' MSL. Elevators beginning 3980' from DER, 131' right of centerline, up to 133' AGL/4283' MSL. **Rwy 6**, trees beginning 46' from DER, 172' right of centerline, up to 14' AGL/4163' MSL. Rising terrain beginning 49' from DER, 326' right of centerline, up to 4149' MSL. Bush 150' from DER, 103' right of centerline, 5' AGL/4147' MSL. Antenna 586' from DER, 398' left of centerline, 15' AGL/4165' MSL. Obstruction light on bridge 1061' from DER, 80' right of centerline, 39' AGL/4179' MSL.

BURLEY MUNI (BYI) (CON'T)

Rwy 20, obstruction light pole 42' from DER, 124' left of centerline, 16' AGL/4170' MSL. Railroad beginning 65' from DER, 4' left of centerline, up to 23' AGL/4177' MSL. Sign 181' from DER, 121' right of centerline, 18' AGL/4172' MSL. Vehicles on road 162' from DER, 2' left of centerline, 17' AGL/4169' MSL. Vehicles on road beginning 335' from DER 348' right of centerline up to 17' AGL/4171' MSL. Pole 446' from DER, 210' right of centerline, 26' AGL/4180' MSL. Antenna 523' from DER, 337' right of centerline, 63' AGL/4217' MSL. Tree 586' from DER, 213' right of centerline, 28' AGL/4182' MSL. Trees beginning 2014' from DER, 339' left of centerline, up to 96' AGL/4251' MSL.

Rwy 24, vehicles on road beginning 25' from DER, 9' left of centerline, up to 15' AGL/4169' MSL. Fence 58' from DER, 8' left of centerline, 4' AGL/4154' MSL. Rising terrain beginning 69' from DER, 201' right of centerline, up to 4154' MSL. Railroad 152' from DER, 6' left of centerline, 23' AGL/4176' MSL. Trees beginning 427' from DER, 101' right of centerline, up to 69' AGL/4223' MSL. Vehicles on road beginning 509' from DER, 586' right of centerline, up to 15' AGL/4169' MSL. Railroad beginning 568' from DER, 288' right of centerline, up to 23' AGL/4177' MSL. Pole 735' from DER, 185' left of centerline, 18' AGL/4172' MSL. Light standard 824' from DER, 58' right of centerline, 23' AGL/4177' MSL. Antenna 1630' from DER, 112' left of centerline, 58' AGL/4212' MSL. Tower 2766' from DER, 175' left of centerline, 123' AGL/4282' MSL. Tower 3570' from DER, 158' right of centerline, 157' AGL/4312' MSL. Obstruction light on elevators beginning 3115' from DER, 164' left of centerline, up to 184' AGL/4344' MSL.

BURLINGTON/MOUNT VERNON, WA

SKAGIT RGNL (BVS)

ORIG-A 08297 (FAA)

TAKE-OFF MINIMUMS: **Rwy 4**, 3000-2 or std. with a min. climb of 340' per NM to 3600. **Rwy 10**, 1700-2 or std. with a min. climb of 245' per NM to 2300. **Rwy 22**, 1300-2 or std. with a min. climb of 210' per NM to 1800.

DEPARTURE PROCEDURE: **Rwys 4, 10, 22**, turn right heading 280°. **Rwy 28**, climb runway heading.

All aircraft climb to 2500 then turn right direct BVS NDB to cross BVS at or above 4500. Aircraft departing on BVS R-145 CWR-330 climb on course. All others continue climbing in BVS holding pattern (NW, right turns 113° inbound) to cross BVS at or above 6800 before proceeding on course.

NOTE: **Rwy 4**, tree 2581' from departure end of runway, 426' left of centerline, 100' AGL/212' MSL. Light pole 1489' from departure end of runway, 136' left of centerline 35' AGL/137' MSL. Bush 126' from departure end of runway, 430' right of centerline, 20' AGL/101' MSL. Building 2925' from departure end of runway, 130' left of centerline, 60' AGL/180' MSL.

BURNS, OR

BURNS MUNI

DEPARTURE PROCEDURE: **Rwy 3**, climbing right turn, thence... **Rwy 12**, climb to 4600 via heading 117°, thence... **Rwys 21, 30**, climbing left turn, thence...
...All aircraft departing on ILR R-072 CWR-209, climb on course. All others climb on ILR R-123 within 10 NM to cross ILR VOR/DME at or above 5000.

NOTE: **Rwy 21**, pole 820' from departure end of runway, 357' left of centerline, 20' AGL/4169' MSL.

BUTTE, MT

BERT MOONEY

TAKE-OFF MINIMUMS: **Rwy 11**, NA-obstacles. **Rwy 15**, std. w/ min. climb of 601' per NM to 7300, or 3300-3 for climb in visual conditions. **Rwy 29**, std. w/ min. climb of 832' per NM to 6700, or 3300-3 for climb in visual conditions. **Rwy 33**, std. w/ min. climb of 355' per NM to 6800, or 3300-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 15**, climbing right turn direct CPN VOR/DME, or for climb in visual conditions: Cross Bert Mooney Airport westbound at or above 8800 then proceed direct CPN VOR/DME, thence... **Rwy 29**, climb heading 293° to intercept CPN VOR/DME R-082 to CPN VOR/DME, or for climb in visual conditions: Cross Bert Mooney Airport westbound at or above 8800 then proceed direct CPN VOR/DME, thence... **Rwy 33**, climb direct CPN VOR/DME, or for climb in visual conditions: Cross Bert Mooney Airport westbound at or above 8800 then proceed direct CPN VOR/DME, thence...

...climb in CPN VOR/DME holding pattern (hold north, left turn, 166° inbound) to cross CPN VOR/DME at or above MEA before proceeding enroute.

NOTE: **Rwy 15**, multiple trees beginning 2 NM from departure end of runway, 1779' right of centerline, up to 100' AGL/6659' MSL. Tree 2.1 NM from departure end of runway, 66' left of centerline, 100' AGL/5934' MSL.

Rwy 29, multiple trees and poles beginning 364' from departure end of runway, 7' right of centerline, up to 100' AGL/5621' MSL. Multiple trees and lights beginning 322' left of centerline, up to 100' AGL/5582' MSL. Terrain and numerous trees beginning 1.2 NM from departure end of runway, 1022' left of centerline, up to 100' AGL/6379' MSL. **Rwy 33**, flag pole 1095' from departure end of runway, 730' left of centerline, 64' AGL/5583' MSL.

CALDWELL, ID

CALDWELL INDUSTRIAL

TAKE-OFF MINIMUMS: **Rwy 12**, std. with a min. climb of 300' per NM to 5600, or 2400-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 12**, climb via heading 119° to 5600 before proceeding on course. For climb in visual conditions: Cross Caldwell Industrial Airport at or above 4800 before proceeding on course. **Rwy 30**, climb via heading 299° to 4400 before proceeding on course.

NOTE: **Rwy 12**, levee 198' from departure end of runway, 281' left of centerline, 0' AGL/2451' MSL. Multiple trees 1462' from departure end of runway, 877' right of centerline, up to 100' AGL/2505' MSL. **Rwy 30**, multiple poles 206' from departure end of runway, 389' right of centerline, up to 39' AGL/2457' MSL. Rod 353' from departure end of runway, 246' right of centerline, 21' AGL/2439' MSL.

CASPER, WY

CASPER/NATRONA COUNTY INTL (CPR)
AMDT 3A 09155 (FAA)

DEPARTURE PROCEDURE: **Rwys 3,8,12**, turn left.

All other runways, turn right. **All aircraft** climb direct DDY VORTAC before proceeding on course, or comply with published Casper SIDs.

CHEHALIS, WA

CHEHALIS-CENTRALIA

DEPARTURE PROCEDURE: **Rwy 16**, climb to 1000 via heading 160° then climbing left turn to 4000 via heading 001° and OLM R-151 to OLM VORTAC before proceeding on course. **Rwy 34**, climb to 4000 via heading 340° and OLM R-176 to OLM VORTAC before proceeding on course.

CHEYENNE, WY

CHEYENNE RGNL/JERRY OLSON FIELD

NOTE: **Rwy 13**, multiple trees beginning 74' from departure end of runway, 115' left of centerline, up to 40' AGL/6166' MSL. Multiple trees, pole, and fence beginning 34' from departure end of runway, 167' right of centerline, up to 40' AGL/6154' MSL. **Rwy 27**, multiple trees and poles beginning 525' from departure end of runway, 271' left of centerline, up to 40' AGL/6216' MSL. Multiple trees and poles beginning 1222' from departure end of runway, 275' right of centerline, up to 40' AGL/6211' MSL. **Rwy 31**, multiple trees, road, fence and sign beginning 196' from departure end of runway, 76' left of centerline, up to 40' AGL/6238' MSL. Multiple poles and sign beginning 407' from departure end of runway, 8' left of centerline, up to 69' AGL/6229' MSL.

CODY, WY

YELLOWSTONE RGNL (COD)

AMDT 4 10042 (FAA)

TAKE-OFF MINIMUMS: **Rwy 4**, std. with a min. climb of 400' per NM to 8000' or 4200-3 for climb in visual conditions. **Rwy 22**, std. with a min. climb of 385' per NM to 7400' or 4200-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 4**, climb heading 038° to 5900, then climbing left turn via COD R-171 to COD VOR/DME or for climb in visual conditions to cross Yellowstone Rgnl at or above 9400, then via COD R-189 to COD VOR/DME to cross COD VOR/DME at or above MEA for route of flight. **Rwy 22**, climb heading 218° to 6600, then climbing left turn via COD R-180 to COD VOR/DME or for climb in visual conditions to cross Yellowstone Rgnl at or above 9400, then via COD R-189 to COD VOR/DME to cross COD VOR/DME at or above MEA for route of flight.

NOTE: **Rwy 4**, trees beginning 100' from DER, 262' right of centerline, up to 79' AGL/5199' MSL. Rising terrain beginning 1723' from DER, 304' right of centerline, up to 5146' MSL. **Rwy 22**, poles beginning 1 NM from DER, 406' right of centerline, up to 60' AGL/5332' MSL. Rising terrain beginning 1 NM from DER, 109' right of centerline, up to 6235' MSL. Rising terrain beginning 5074' from DER, 131' left of centerline, up to 5428' MSL.

COEUR D'ALENE, ID

COEUR D'ALENE-PAPPY BOYINGTON FIELD
(COE)

AMDT 9 10042 (FAA)

DEPARTURE PROCEDURE: use COEUR D'ALENE DEPARTURE.

COLSTRIP, MT

COLSTRIP (M46)

AMDT 2 08157 (FAA)

TAKE-OFF MINIMUMS: **Rwy 6** use CISPU (RNAV)

DEPARTURE: **Rwy 24**, use CONUK (RNAV)
DEPARTURE.

CONRAD, MT

CONRAD

DEPARTURE PROCEDURE: **Rwy 24**, climb runway heading to 4300, then continue climb on course.

CORVALLIS, OR

CORVALLIS MUNI

TAKE-OFF MINIMUMS: **Rwys 9, 17, 35**, std. with a min. climb of 290' per NM to 3100 or 1700-3 for climb in visual conditions.

Rwy 27, std. with a min. climb of 310' per NM to 3100 or 1700-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 9, 17**, climbing left turn direct CVO VOR/DME, thence...or, climb in visual conditions to cross CVO VOR/DME at or above 3400.

Rwys 27, 35, climbing right turn direct CVO VOR/DME, thence...or, climb in visual conditions to cross CVO VOR/DME at or above 3400.

...climb in CVO VOR/DME holding pattern (E, RT, 261° inbound) to depart at or above 3400.

NOTE: **Rwy 9**, multiple trees and railroad beginning 549' from departure end of runway, 254' left of centerline, up to 153' AGL/383' MSL. Multiple trees and railroad beginning 670' from departure end of runway, 5' right of centerline, up to 135' AGL/380' MSL. **Rwy 27**,

obstruction light on glideslope 409' from departure end of runway, 325' left of centerline, 28' AGL/273' MSL.

Rwy 35, multiple trees beginning 470' from departure end of runway, 544' left of centerline up to 36' AGL/276' MSL.

COWLEY/LOVELL/BYRON, WY

NORTH BIG HORN COUNTY

DEPARTURE PROCEDURE: **Rwys 9, 27**, aircraft departing via HCY NDB bearings 130° CW 225° climb on course, all others climb in HCY NDB holding pattern (W, right turns, 078° inbound) to cross HCY NDB at or above 9000.

DEER PARK, WA

DEER PARK (DEW)
AMDT 1 10098 (FAA)

TAKE-OFF MINIMUMS: **Rwy 34**, 300-1½ or std. with a min. climb of 455' per NM to 2500.

DEPARTURE PROCEDURE: **Rwy 4**, climbing right turn heading 165° and GEG VORTAC R-006 to GEG VORTAC. **Rwy 16**, climb heading 164° and GEG VORTAC R-006 to GEG VORTAC. **Rwy 22**, climbing left turn heading 155° and GEG VORTAC R-006 to GEG VORTAC. **Rwy 34**, climbing right turn heading 165° and GEG VORTAC R-006 to GEG VORTAC.

NOTE: **Rwy 4**, aircraft 261' from DER, 511' left of centerline, up to 21' AGL/2210' MSL. Trees beginning 1809' from DER, 413' left of centerline, up to 109' AGL/2299' MSL. Aircraft 104' from DER, 186' right of centerline, up to 21' AGL/2200' MSL. Trees beginning 1667' from DER, 373' right of centerline, up to 116' AGL/2319' MSL. **Rwy 16**, trees beginning 31' from DER, 455' left of centerline, up to 109' AGL/2279' MSL. Trees beginning 2587' from DER, 621' right of centerline, up to 104' AGL/2264' MSL. **Rwy 22**, trees beginning 1461' from DER, 211' right of centerline, up to 90' AGL/2270' MSL. **Rwy 34**, aircraft 23' from DER, 218' left of centerline, up to 21' AGL/2230' MSL. Trees beginning 2678' from DER, 18' left of centerline, up to 165' AGL/2375' MSL. Vehicles beginning 74' from DER, 339' right of centerline, up to 15' AGL/2234' MSL. Trees beginning 2219' from DER, 260' right of centerline, up to 100' AGL/2382' MSL.

DILLON, MT

DILLON

TAKE-OFF MINIMUMS: **Rwys 3, 21**, NA.

DEPARTURE PROCEDURE: **Rwys 16, 34**, turn right, climb in DLN VOR/DME holding pattern (N, right turns, 185° inbound) to cross DLN VOR/DME at or above; northwestbound V257 8500; southwestbound V121 8500; northbound V21 7600; southeastbound V21, V257 9400.

DOUGLAS, WY

CONVERSE COUNTY

TAKE-OFF MINIMUMS: **Rwy 5**, 300-2 or std. with a min. climb of 250' per NM to 5200. **Rwy 23**, 1700-3 or std. with a min. climb of 260' per NM to 7200.

DEPARTURE PROCEDURE: **Rwy 5**, climbing right turn via IIP VOR/DME R-342 to IIP VOR/DME. **Rwy 11**, climbing right turn via IIP VOR/DME R-312 to IIP VOR/DME. **Rwy 23**, climbing left turn via IIP VOR/DME R-264 to IIP VOR/DME. **Rwy 29**, climbing right turn via IIP VOR/DME R-325 to IIP VOR/DME. **All aircraft** departing IIP R-253 CW R-180 climb on course. All others continue climb in IIP VOR/DME holding pattern (NW, left turns, 125° inbound) to cross IIP VOR/DME at or above: R-181 CW R-199 9600; R-200 CW R-252 8000.

NOTE: **Rwy 5**, trees 1883' from departure end of runway, 549' right of centerline, 35' AGL/5014' MSL. Trees 3407' from departure end of runway, 209' right of centerline, 35' AGL/5074' MSL. Trees 5458' from departure end of runway, 1954' right of centerline, 35' AGL/5132' MSL. **Rwy 23**, trees 2068' from departure end of runway, 1008' left of centerline, 35' AGL/4994' MSL. Trees 3130' from departure end of runway, 1215' left of centerline, 35' AGL/5014' MSL.

DRIGGS, ID

DRIGGS-REED MEMORIAL (DIJ)
AMDT 2 08157 (FAA)

DEPARTURE PROCEDURE: Use LAMON DEPARTURE.

EASTSOUND, WA

ORCAS ISLAND (ORS)

AMDT 1 09351 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, NA-Terrain. **Rwy 34**, 500-3 or std. w/ min. climb of 224' per NM to 600.

DEPARTURE PROCEDURE: **Rwy 34**, climbing right turn to 2000 to intercept HUH VORTAC R-210 to HUH VORTAC, then climb-in-hold (hold South, Left turns, 352° inbound) to cross HUH VORTAC at or above 3800 before proceeding on course.

NOTE: **Rwy 34**, trees beginning 330' from DER, 411' left of centerline, up to 120' AGL/139' MSL.

ELLENBURG, WA

BOWERS FIELD

TAKE-OFF MINIMUMS: **Rwys 7, 11**, 4600-3 or std. with a min. climb of 290' per NM to 7800. **Rwy 25**, 4700-3 or std. with a min. climb of 340' per NM to 7800. **Rwy 29**, 4600-3 or std. with a min. climb of 320' per NM to 7800.

DEPARTURE PROCEDURE: **Rwys 7, 29**, climbing right turn direct ELN VORTAC. **Rwys 11, 25**, climbing left turn direct ELN VORTAC. **All aircraft**, continue climbing in the ELN VORTAC holding pattern (W, right turns, 087° inbound) to MEA/MOCA for route of flight.

EPHRATA, WA

EPHRATA MUNI (EPH)

AMDT 3 09127 (FAA)

TAKE-OFF MINIMUMS: **Rwy 29**, NA-Obstacles.

DEPARTURE PROCEDURE: **Rwy 3**, climb heading 027° to 2300 before proceeding on course. **Rwy 11**, climb heading 112° to 2200 before proceeding on course. **Rwy 21**, climb heading 207° to 2800 before proceeding on course.

EUGENE, OR

MAHLON SWEET FIELD

DEPARTURE PROCEDURE: **Rwys 16L, 16R**, climb to 1000 then climbing right turn... **Rwys 34L, 34R**, climb to 1000 then climbing left turn...

...all aircraft climb direct EUG VORTAC, then climb in EUG VORTAC holding pattern (hold north, right turn, 175° inbound) to cross EUG VORTAC at or above MEA altitude before proceeding enroute.

NOTE: **Rwy 16R**, tree 1992' from departure end of runway, 832' left of centerline, 50' AGL/419' MSL. **Rwy 16L**, multiple trees and power poles beginning 872' from departure end of runway, 35' right of centerline, up to 50' AGL/437' MSL, multiple trees and power poles beginning 890' from departure end of runway, 77' left of centerline, up to 50' AGL/433' MSL. **Rwy 34R**, multiple trees beginning 2869' from departure end of runway, 186' right of centerline, up to 50' AGL/447' MSL. Tree 2535' from departure end of runway, 652' left of centerline, 50' AGL/428' MSL.

EVANSTON, WY

EVANSTON-UINTA COUNTY BURNS FIELD

DEPARTURE PROCEDURE: **Rwy 5**, climb via heading 050° and FBR VOR/DME R-243 to FBR VOR/DME. **Rwy 23**, climbing left turn via heading 030° and FBR VOR/DME R-243 to FBR VOR/DME.

All aircraft: cross FBR VOR/DME at or above MEA for direction of flight.

EVERETT, WA

SNOHOMISH COUNTY (PAINE FIELD)

TAKE-OFF MINIMUMS: **Rwy 29**, std. with a min. climb of 353' per NM to 800.

DEPARTURE PROCEDURE: **Rwys 11, 16L/R**, climbing right turn, thence... **Rwys 29, 34L/R**, climbing left turn, thence...

...for aircraft departing via V287 west bound, climb via PAE VOR/DME R-236 to 3000. All others, climb direct PAE VOR/DME, climb in PAE VOR/DME holding pattern (NW, RT, 149° inbound) to MEA for route of flight before proceeding on course.

NOTE: Rwy 11, multiple antennas on building, rod on obstruction light, and trees beginning 326' from departure end of runway, 387' right of centerline, up to 85' AGL/664' MSL. Tree 1156' from departure end of runway, 600' left of centerline, 93' AGL/672' MSL. **Rwy 16L**, multiple trees and pole beginning 588' from departure end of runway, 220' left of centerline, up to 118' AGL/697' MSL. Multiple trees, pole, and building beginning 449' from departure end of runway, 162' right of centerline, up to 78' AGL/657' MSL. **Rwy 16R**, multiple trees beginning 1228' from departure end of runway, 168' left of centerline, up to 140' AGL/699' MSL. Multiple trees beginning 707' from departure end of runway, 158' right of centerline, up to 118' AGL/687' MSL. **Rwy 29**, multiple trees beginning 45' from departure end of runway, 66' left of centerline, up to 111' AGL/630' MSL. Multiple trees beginning 343' from departure end of runway, 44' right of centerline, up to 110' AGL/689' MSL. **Rwy 34R**, multiple trees and pole beginning 3340' from departure end of runway, 180' right of centerline, up to 95' AGL/674' MSL. Tree 5762' from departure end of runway, 221' left of centerline, 103' AGL/682' MSL.

FAIRCHILD AFB (KSKA)

SPOKANE, WA ORIG, 08017

DEPARTURE PROCEDURES: **Rwy 5**, climb on track 048° to intercept SKA R-045 to 5300, then on course. **Rwy 23**, climb on track 241° to 3400, then on course.

TAKE-OFF OBSTACLES: **Rwy 23**, Terrain 2468' MSL, 194' from DER, 405' right of centerline. Terrain 2477' MSL, 461' from DER, 751' right of centerline. Terrain 2477' MSL, 509' from DER, 750' right of centerline.

FORT BENTON, MT

FORT BENTON

TAKE-OFF MINIMUMS: **Rwys 5, 23**, std. w/ min. climb of 274' per NM to 8900 or 5100-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 5, 23**, for climb in visual conditions: Cross Fort Benton Airport at or above 8900 MSL before proceeding on course.

FORT BRIDGER, WY

FORT BRIDGER

DEPARTURE PROCEDURE: **All aircraft** climb direct FBR VOR/DME. Aircraft departing; FBR R-210 CW R-135 climb on course; FBR R-136 CW R-209 cross FBR VOR/DME at or above 9000. (Hold NE, right turns, 215° inbound).

FRIDAY HARBOR, WA

FRIDAY HARBOR

TAKE-OFF MINIMUMS: **Rwy 34**, 500-1.

DEPARTURE PROCEDURE: Aircraft departing FHR NDB **Rwy 34**, climbing right turn direct FHR NDB, then climb on course. All other aircraft climb on course.

GILLETTE, WY

GILLETTE-CAMPBELL COUNTY (GCC)

AMDT 4 09071 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, std. w/ min. climb of 275' per NM to 5600, or 1200-3 for climb in visual conditions. **Rwy 21**, 600-3 or std. w/ min. climb of 425' per NM to 5200.

DEPARTURE PROCEDURE: **Rwy 16**, climb via heading 158° to 5100, before proceeding on course or, for climb in visual conditions cross Gillette-Campbell County airport at or above 5400 before proceeding on course. **Rwy 21**, climb via heading 206° to 5200, before proceeding on course.

NOTE: Rwy 3, windsock 1415' from DER, 100' left of centerline, 24' AGL/4366' MSL. Trees beginning 1976' from DER, 267' right of centerline, up to 30' AGL/4409' MSL. **Rwy 16**, tower and poles beginning 1.61 NM from DER, 1264' left of centerline, up to 57' AGL/4696' MSL. Post and trees beginning 1.77 NM from DER, 300' right of centerline, up to 51' AGL/4789' MSL. **Rwy 21**, fence 328' from DER, 267' left of centerline, 7' AGL/4352' MSL, trees 2077' from DER, 1011' right of centerline, 30' AGL/4449' MSL, tree 7029' from DER, 2378' right of centerline, 30' AGL/4729' MSL. **Rwy 34**, fence 1236' from DER, 723' left of centerline, 16' AGL/4380' MSL. Vehicle on road 1609' from DER, 419' left of centerline, 15' AGL/4394' MSL. Trees 3093' from DER, 936' right of centerline, 30' AGL/4449' MSL. Vehicle on road 1610' from DER. 419' left of centerline, 15' AGL/4380' MSL.

GOODING, ID

GOODING MUNI (GNG)

ORIG 08269 (FAA)

DEPARTURE PROCEDURE: **Rwy 7**, climb heading 068° to 5000 before turning left. **Rwy 25**, climb heading 233° to 5600 before turning right.

NOTE: Rwy 7, rising terrain 59' from departure end of runway, 479' right of centerline, up to 3754' MSL. Fence line 653' from departure end of runway, 332' right of centerline, 12' AGL up to 3751' MSL. Bushes starting 877' from departure end of runway, 420' right of centerline, 20' AGL up to 3795' MSL. **Rwy 25**, vehicle on road, 91' from departure end of runway, 257' left of centerline, up to 10' AGL/3678' MSL.

GRANGEVILLE, ID

IDAHO COUNTY (S80)

AMDT 1 08157 (FAA)

TAKE-OFF MINIMUMS: **Rwy 7**, 10 - Obstacles.

DEPARTURE PROCEDURE: **Rwy 25**, Use MELLR

DEPARTURE.

GRANTS PASS, OR

GRANTS PASS

TAKE-OFF MINIMUMS: **Rwy 12**, NA. **Rwy 30**, 4000-3 or std. with a min. climb of 360' per NM to 5000.

DEPARTURE PROCEDURE: **Rwy 30**, climb via heading 320 until passing 5000, then climbing right turn direct RBG VOR/DME. Cross RBG VOR/DME at or above MEA for route of flight.

GRAY AAF (KGRF)

FORT LEWIS, WA AMDT 2, 10098

Rwy 15, Standard

Rwy 33, 300-1*

* Or standard with minimum climb of 430/NM to 600.

DEPARTURE PROCEDURE: **Rwy 15**, Climb heading 147° to 700 then climbing left turn direct GRF NDB.

Rwy 33, Climb direct GRF NDB. Aircraft departing 330° CW 070° and 135° CW 260° bearing from GRF NDB climb on course. All others continue climb in GRF NDB holding pattern (hold NW, RT, 147° inbound) to cross GRF NDB at or above: 071° CW 134° bearing from GRF NDB, 8500; 261° CW 329° bearing from GRF NDB, 1500.

TAKE-OFF OBSTACLES: **Rwy 15**, Tree 100' AGL/439' MSL, 1848' from DER, 430' right of centerline. **Rwy 33**, Tree 100' AGL/479' MSL, 3465' from DER, 1338' left of centerline.

GREAT FALLS, MT

GREAT FALLS INTL

NOTE: **Rwy 7**, obstruction light on lighted wind sock 237' from departure end of runway, 519' left of centerline, 34' AGL/3694' MSL. Obstruction light on building 2226' from departure end of runway, 614' left of centerline, 78' AGL/3738' MSL. Building on 681' from departure end of runway, 583' right of centerline, 48' AGL/3688' MSL. Multiple light poles beginning 1359' from departure end of runway, 440' right of centerline, up to 90' AGL/3746' MSL. **Rwy 21**, pole 1544' from departure end of runway, 791' left of centerline, 45' AGL/3725' MSL. **Rwy 25**, windmill 2.3 NM from departure end of runway, 4197' right of centerline, 338' AGL/4003' MSL.

GREYBULL, WY

SOUTH BIG HORN COUNTY (GEY)

ORIG-A 09239 (FA)

TAKE-OFF MINIMUMS: **Rwy 25**, 300-1 or std. w/min. climb of 260' per NM to 4200.

DEPARTURE PROCEDURE: **All runways**, for departures on GEY bearings 320° CW 150°, climb in GEY NDB holding pattern to 9000 before departing on course, then continue climb to MEA or assigned altitude. Departures GEY bearings 150° CW 320° climb on course.

NOTE: **Rwy 25**, bush 4955' from DER, 1268' right of centerline, 2' AGL/4101' MSL.

GUERNSEY, WY

CAMP GUERNSEY

TAKE-OFF MINIMUMS: **Rwy 14**, 300-1 or std. with a min. climb of 320' per NM to 4700. **Rwy 32**, 1400-2 or std. with a min. climb of 320' per NM to 5800.

DEPARTURE PROCEDURE: **Rwy 14**, climb to 5600 via heading 150°. **Rwy 32**, climb to 5800 via heading 070°. **All aircraft** continue on course.

HAILEY, ID

FRIEDMAN MEMORIAL

TAKE-OFF MINIMUMS: **Rwy 13**, 2700-3 w/min. climb of 307' per NM to 6400, or 3600-3 for climb in visual conditions. **Rwy 31**, NA-obstacles.

DEPARTURE PROCEDURE: **Rwy 13**, Climbing right turn heading 149°, then on 160° course to HLE NDB, or for climb in visual conditions: cross Friedman Memorial Airport at or above 8800 heading 151°, then on 151° course to HLE NDB.

NOTE: **Rwy 13**, multiple trees beginning 763' from departure end of runway, 3' right of centerline, up to 100' AGL/5345' MSL. Multiple trees beginning 1.3 NM from departure end of runway, 2587' right of centerline, up to 100' AGL/6099' MSL.

HAMILTON, MT

RAVALLI COUNTY

DEPARTURE PROCEDURE: Use HAMEY RNAV DEPARTURE.

HAVRE, MT

HAVRE CITY-COUNTY (HVR)

AMDT 3 09351 (FAA)

TAKE-OFF MINIMUMS: **Rwy 8**, 300-1½ or std. w/min. climb of 217' per NM to 3300.

DEPARTURE PROCEDURE: **Rwy 3**, climb heading 032° to 3300 then climbing left turn to 8000 direct HVR VOR/DME thence...**Rwy 8**, climb heading 077° to 3300 then climbing left turn to 8000 via HVR R-025 to HVR VOR/DME thence...**Rwy 21**, climb heading 212° to 3300 then climbing right turn to 8000 direct HVR VOR/DME thence...**Rwy 26**, climb heading 257° to 3300 then climbing right turn to 8000 direct HVR VOR/DME thence...

...continue climb in hold in HVR VOR/DME holding pattern (hold west, right turns, 094° inbound) to cross HVR VOR/DME at or above 8000 before proceeding on course.

NOTE: **Rwy 3**, pole 2682' from DER, 1044' left of centerline, 21' AGL/2680' MSL. **Rwy 8**, obstruction light on windsock 59' from DER, 224' left of centerline, 9' AGL/2588' MSL. Tree 1192' from DER, 752' left of centerline, 25' AGL/2610' MSL. Tank 1.3 NM from DER, 2287' left of centerline, 57' AGL/2797' MSL. **Rwy 26**, light on windsock, 50' from DER, 225' right of centerline, 9' AGL/2589' MSL. Trees beginning 1617' from DER, 650' right of centerline, 25' AGL/2659' MSL.

HELENA, MT

HELENA RGNL (HLN)
ADMT 9 08269 (FAA)

TAKE-OFF MINIMUMS: **Rwy 5**, 2500-3 or std. w/ min. climb of 250' per NM to 8100, or 1600-3 for climb in visual conditions. **Rwy 9**, std. w/ min. climb of 240' per NM to 8100, or 1600-3 for climb in visual conditions. **Rwy 23**, 1600-3 or std. w/ min. climb of 560' per NM to 8100, or 1600-3 for climb in visual conditions. **Rwy 27**, 1600-3 or std. w/ min. climb of 390' per NM to 8100, or 1600-3 for climb in visual conditions. **Rwys 16, 34, NA**.
DEPARTURE PROCEDURE: **Rwys 5, 9**, climbing left turn heading 270°. **Rwys 23, 27**, climbing right turn heading 020°. **All Aircraft**: continue climb northwestbound via HLN R-318 to 8100, then climbing right turn direct HLN VORTAC, cross HLN VORTAC at or above 9000, before proceeding on course, or for climb in visual conditions: cross Helena Rgnl airport northbound at or above 5300 and continue climbing via HLN R-336 to WOKEN INT before proceeding on course.

NOTE: **Rwy 5**, ground beginning 5' from departure end of runway, 495' right of centerline, up to 3826' MSL. Fence beginning 423' from departure end of runway, 331' right of centerline, up to 10' AGL/3832' MSL. **Rwy 23**, pole 2198' from departure end of runway, 462' left of centerline, 76' AGL/3996' MSL, tree 1011' from departure end of runway, 379' left of centerline, 44' AGL/3964' MSL, rod on building 953' from departure end of runway, 321' left of centerline, 323' AGL/943' MSL, tree 1519' from departure end of runway, 142' right of centerline, 53' AGL/3953' MSL. **Rwy 27**, building 1593' from departure end of runway, 731' left of centerline, 58' AGL/6385' MSL. Ground beginning 101' from departure end of runway, 346' left of centerline, up to 3871' MSL. Tree 1567' from departure end of runway, 616' left of centerline, 47' AGL/3906' MSL.

HERMISTON, OR

HERMISTON MUNI

NOTE: **Rwy 4**, tower 379' left of departure end of runway, 50' AGL/698' MSL. **Rwy 22**, light pole 456' left of departure end of runway, 44' AGL/684' MSL.

HOQUIAM, WA

BOWERMAN

TAKE-OFF MINIMUMS: **Rwy 6**, 600-2 or std. with a min. climb of 260' per NM to 600.
DEPARTURE PROCEDURE: **Rwy 6**, climbing right turn heading 110°. **Rwy 24**, climb runway heading.
All aircraft climb to 600 continue climb on course.

HULETT, WY

HULETT MUNI (W43)
ORIG 07354 (FAA)

TAKE-OFF MINIMUMS: **Rwy 13**, std. w/ min. climb of 450' per NM to 6300, or 500-2½ w/ min. climb of 295' per NM to 7700, or 2200-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 13**, climb to 7700 via heading 132° before proceeding on course, or climb in visual conditions: cross Hulett Muni Airport at or above 6300 before proceeding on course. **Rwy 31**, climbing right turn on a heading between 090° clockwise to 115° from departure end of runway to 7700 before proceeding on course.

NOTE: **Rwy 13**, road 398' from departure end of runway, 37' left of centerline, 15' AGL/4296' MSL, truck on road 1126' from departure end of runway, 346' right of centerline, 15' AGL/4334' MSL, trees beginning 4945' from departure end of runway, across centerline, up to 100' AGL/4657' MSL. **Rwy 31**, terrain 104' from departure end of runway, 420' left of centerline, 4200' MSL, terrain 344' from departure end of runway, 233' left of centerline, 4207' MSL.

IDAHO FALLS, ID

IDAHO FALLS RGNL (IDA)
AMDT 4 09351 (FAA)

DEPARTURE PROCEDURE: **All aircraft** departing IDA R-160 CW R-040 climb on course. **All others** climb direct IDA VOR/DME. Continue climb in IDA holding pattern (South, left turns, 019° inbound) to cross IDA VOR/DME at or above 7500 before proceeding on course.

NOTE: **Rwy 2**, pole 1039' from DER, 758' left of centerline, 42' AGL/4762' MSL. **Rwy 17**, trees, flagpole, building, light and vent on buildings, and vehicle on road beginning 29' from DER, 10' right of centerline, up to 84' AGL/4820' MSL. Trees and vent on building beginning 569' from DER, 22' left of centerline, up to 35' AGL/4760' MSL. Trees, antenna, and light poles beginning 1853' from DER, 26' right of centerline, up to 121' AGL/4851' MSL. **Rwy 35**, trees and railroad beginning 410' from DER, 503' right of centerline, up to 49' AGL/4769' MSL. Tree 1034' from DER, 715' left of centerline, 42' AGL/4762' MSL.

JACKSON, WY

JACKSON HOLE

DEPARTURE PROCEDURE: **Rwy 1**, use GEYSER DEPARTURE. **Rwy 19**, use TETON DEPARTURE.

JEROME, ID

JEROME COUNTY (JER)

AMDT 2 09295 (FAA)

TAKE-OFF MINIMUMS: **Rwy 9**, 500-1½ or std. w/ min. climb of 435' per NM to 4700.DEPARTURE PROCEDURE: **Rwy 9**, climb heading 086° to 5300 before proceeding on course. **Rwy 27**, climb heading 266° to 4800 before proceeding on course.NOTE: **Rwy 9**, bush 140' from DER, 500' left of centerline, 16' AGL/4076' MSL. Poles starting 1432' from DER, 32' left of centerline, up to 47' AGL/4169' MSL. Sign 1473' from DER, 547' left of centerline, 49' AGL/4119' MSL. Obstruction light on building 1510' from DER, 6' left of centerline, 43' AGL/4103' MSL. Trees starting 1651' from DER, 100' left of centerline, up to 53' AGL/4137' MSL. Building 2186' from DER, 173' left of centerline, 29' AGL/4119' MSL. Rising terrain starting 2549' from DER, 560' left of centerline, up to 4219' MSL. AG equip 4752' from DER, 517' left of centerline, 26' AGL/4175' MSL. Poles starting 600' from DER, 254' right of centerline, up to 48' AGL/4173' MSL. **Rwy 27**, fence starting 18' from DER, 440' left of centerline, up to 9' AGL/3969' MSL.**JOHN DAY, OR**

GRANT COUNTY RGNL/OGILVIE FIELD

(GCD)

AMDT 1 09015 (FAA)

TAKE-OFF MINIMUMS: **Rwys 9, 17, 35**, NA, Terrain.DEPARTURE PROCEDURE: **Rwy 27**, climbing left turn to 12000 heading 270° and IMB R-100 to IMB VORTAC, climb in IMB VORTAC holding pattern (E, right turns, 280° inbound) to cross IMB VORTAC at or above MEA for route of flight.NOTE: **Rwy 27**, fence beginning 195' from departure end of runway, 50' right of centerline, up to 16' AGL/3665' MSL. Trees beginning 229' from departure end of runway, 261' right of centerline, up to 26' AGL/3662' MSL. Bush 389' from departure end of runway, 438' right of centerline, 20' AGL/3659' MSL.**KALISPELL, MT**

GLACIER PARK INTL

DEPARTURE PROCEDURE: Use SKOTT

DEPARTURE.

KELSO, WA

SOUTHWEST WASHINGTON RGNL (KLS)

AMDT 3 10098 (FAA)

TAKE-OFF MINIMUMS: **Rwy 12**, NA, terrain. **Rwy 30**, std. with a min. climb of 370' per NM to 1900 or 1900-2½ for climb in visual conditions.DEPARTURE PROCEDURE: **Rwy 30**, climb heading 303° to 1900 then climbing right turn to 3900 direct LSO NDB. Continue climb in LSO NDB holding pattern (North, right turns, 175° inbound) to cross LSO NDB at or above 3900, then via BTG R-310 to BTG VORTAC. For climb in visual conditions: cross Southwest Washington Rgnl at or above 1800, then via BTG R-309 to BTG VORTAC.NOTE: **Rwy 30**, light pole 22' from DER, 301' right of centerline, 30' AGL/49' MSL. Windsock 235' from DER, 348' left of centerline, 30' AGL/49' MSL. Rotating beacon 502' from DER, 425' left of centerline, 50' AGL/70' MSL. Multiple trees beginning 213' from DER, 530' right to 747' left of centerline, up to 136' AGL/155' MSL. Pole 964' from DER, 44' right of centerline, 30' AGL/50' MSL.**KEMMERER, WY**

KEMMERER MUNI (EMM)

AMDT 1 09239 (FAA)

TAKE-OFF MINIMUMS: **Rwys 4, 10, 22, 28**, NA -Rwy surfaces.DEPARTURE PROCEDURE: **Rwy 16**, climb to 12000 via heading 166° and FBR VOR/DME R-330 to FBR VOR/DME before proceeding on course. **Rwy 34**, climb via heading 346° to 8200 then climbing right turn to 12000 via heading 125° and FBR VOR/DME R-345 to FBR VOR/DME before proceeding on course.**KLAMATH FALLS, OR**

KLAMATH FALLS

TAKE-OFF MINIMUMS: **Rwy 7**, NA. **Rwy 14**, 1100-3 or std. with a min. climb of 275' per NM to 5500. **Rwy 25**, 3300-3 or std. with a min. climb of 250' per NM to 7400. **Rwy 32**, 2000-3 or std. with a min. climb of 320' per NM to 6300.DEPARTURE PROCEDURE: **Rwys 14, 25**, climb via runway heading to 6000 then climbing right turn direct LMT VORTAC, thence... **Rwy 32**, climb via runway heading to 5500 then climbing left turn direct LMT VORTAC, thence... climb in LMT holding pattern (W, right turns, 070° inbound) to cross LMT VORTAC at or above 8000.**LA GRANDE, OR**

LA GRANDE/UNION COUNTY

TAKE-OFF MINIMUMS: **Rwy 12**, Cat A/B 2900-3 or std. with a min. climb of 350' per NM to 6100. Cat C/D 4500-3 or std. with a min. climb of 500' per NM to 7800. **Rwy 30**, Cat A/B 2900-3 or std. with a min. climb of 350' per NM to 6100. Cat C/D 3600-3 or std. with a min. climb of 450' per NM to 6800. **Rwy 34**, 2900-3 or std. with a min. climb of 350' per NM to 6100. **Rwy 16**, 2000-3 or std. with a min. climb of 500' per NM to 5000.DEPARTURE PROCEDURE: **Rwy 12, 16**, climbing left turn direct LGD NDB, thence; **Rwys 30, 34**, climbing right turn heading 010°, thence; **all aircraft** climb to 7000 via the 339° bearing from LGD NDB, then climbing right turn direct LGD NDB.

LAKEVIEW, OR

LAKE COUNTY

TAKE-OFF MINIMUMS: **Rwy 16**, 3700-5 or std. with a min. climb of 320' per NM to 8800. **Rwy 34**, 2500-5 or std. with a min. climb of 320' per NM to 8500.

DEPARTURE PROCEDURE: **Rwy 16**, climbing right turn via LKV R-163 to LKV VORTAC. **Rwy 34**, climbing left turn heading 320° to intercept LKV R-148 then via LKV R-148 to LKV VORTAC. **All aircraft** continue climbing in the LKV VORTAC holding pattern (NW, right turns, 148° inbound) to MEA for route of flight.

LARAMIE, WY

LARAMIE RGNL

DEPARTURE PROCEDURE: **Rwy 3**, turn left.

Rwys 12, 21, turn right. **All aircraft** climb direct LAR VORTAC, continue climb in holding pattern (W, left turns, 107° inbound) to cross LAR VORTAC at or above: westbound V4, 10600. All others cross LAR VORTAC at or above MEA for direction of flight.

LAUREL, MT

LAUREL MUNI

TAKE-OFF MINIMUMS: **Rwys 9, 14, 27, 32**, NA.

DEPARTURE PROCEDURE: **Rwy 22**, turn left.

All aircraft climb direct BIL VORTAC.

LEWISTON, ID

LEWISTON-NEZ PERCE COUNTY

DEPARTURE PROCEDURE: **Rwys 8, 11, 26, 29**, turn left direct MQG VOR/DME. Continue climb in holding pattern (W, left turns, 066° inbound) to cross MQG VOR/DME at or above 3600.

LEWISTOWN, MT

LEWISTOWN MUNI

TAKE-OFF MINIMUMS: **Rwy 2**, 1800-2 or std. with a min. climb of 280' per NM to 6900. **Rwy 7, 12**, 900-2 or std. with a min. climb of 220' per NM to 6200.

DEPARTURE PROCEDURE: **Rwys 2, 30** turn left.

Rwys 7, 12, 20, turn right. **Rwy 25**, climb runway heading. **All aircraft** climb direct LWT VORTAC. Continue climb in holding pattern (W, right turns, 094° inbound) to MEA for route of flight.

LEXINGTON, OR

LEXINGTON

TAKE-OFF MINIMUMS: **Rwy 26**, std. with min. climb of 280' per NM to 7600, or 1600-2 ½ for climb in visual conditions. **Rwy 8**, std. with min. climb of 490' per NM to 4200, or 1600-2 ½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 8, 26**, for climb in visual conditions: cross Lexington Airport at or above 3600.

NOTES: **Rwy 8**, trees 1.42 NM from departure end of runway, 2386' left of centerline, 100' AGL/2159' MSL. Trees 1.48 NM from departure end of runway, 2755' left of centerline, 100' AGL/2179' MSL.

LIBBY, MT

LIBBY

TAKE-OFF MINIMUMS: **Rwy 33**, not authorized.

Rwy 15, use EYESE RNAV DEPARTURE.

LIVINGSTON, MT

MISSION FIELD (LVM)

AMDT 3 09071 (FAA)

TAKE-OFF MINIMUMS: **Rwys 8, 13, 26, 31**, NA-Environmental.

DEPARTURE PROCEDURE: **Rwys 4, 22**, use LIVINGSTON DEPARTURE.

MADRAS, OR

MADRAS MUNI (S33)

ORIG-A 09043 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, std. w/a min. climb of 298' per NM to 3900 or 1100-2 ½ for climb in visual conditions. **Rwy 22**, std. w/a min. climb of 281' per NM to 3900 or 1100-2 ½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 4, 34**, climbing left turn heading 210° and DSD R-348 to DSD VORTAC to 7000 before proceeding on course. **Rwy 16**, climbing right turn heading 210° and DSD R-348 to DSD VORTAC to 7000 before proceeding on course, or... **Rwy 22**, climb heading 216° and DSD R-348 to DSD VORTAC to 7000 before proceeding on course, or... for climb in visual conditions: cross Madras Muni at or above 3400 MSL, then direct DSD VORTAC to 7000 before proceeding on course.

MC CALL, ID

MC CALL MUNI (MYL)

AMDT 2 09127 (FAA)

TAKE-OFF MINIMUMS: **Rwy 34**, NA-Obstacles.

DEPARTURE PROCEDURE: **Rwy 16**, use MCCALL DEPARTURE.

MC CHORD AFB (KTCM)

TACOMA, WA 09127

DEPARTURE PROCEDURE: **Rwy 16**, Track heading 160°, turn left to intercept SEA VORTAC R-168 (V495) to SEA 168/37.1 DME (ALDER). Cross ALDER at or above 4000. After ALDER, maintain MEA/MOCA for route of flight. **Rwy 34**, Track heading 340°, then turn right to intercept SEA VORTAC R-168 (V495) to SEA R-168/37.1 DME (ALDER). Cross ALDER at or above 4000. Maintain MEA/MOCA for route of flight.

TAKEOFF OBSTACLES: **Rwy 16**, Grove of trees 143' AGL/454' MSL, 4892' from DER, 1353' left of centerline. Grove of trees 102' AGL/419' MSL, 2395' from DER, 1028' right of centerline. Trees 136' AGL/447' MSL, 2867' from DER, 1261' left of centerline. Trees 120' AGL/430' MSL, 2594' from DER, 1113' left of centerline. Trees 85' AGL/394' MSL, 2310' from DER, 957' left of centerline. Trees 83' AGL/392' MSL, 2006' from DER, 959' left of centerline. Trees 87' AGL/389' MSL, 1758' from DER, 971' left of centerline. **Rwy 34**, Tree 106' AGL/348' MSL, 2307' from DER, 1038' left of centerline. Tree 121' AGL/370' MSL, 3190' from DER, 526' right of centerline. Aircraft 65' AGL/317' MSL, 186' from DER, 407' left of centerline. Tree 64' AGL/343' MSL, 2260' from DER, 1036' left of centerline. Building 40' AGL/321' MSL, 1668' from DER, 810' left of centerline.

MC MINNVILLE, OR

MC MINNVILLE MUNI (MMV)

AMDT 4 08325 (FAA)

TAKE-OFF MINIMUMS: **Rwy 4**, 400-1¼ or std. w/ min. climb of 238' per NM to 400, or alternatively, with standard take-off minimums and normal 200'/NM climb gradient, take-off must occur no later than 2000' prior to departure end of runway. **Rwy 17**, std. w/ min. climb of 300' per NM to 1200 or 1800-2½ for climb in visual conditions. **Rwy 22**, std. w/ min. climb of 303' per NM to 1400 or 1800-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 4**, climb heading 038° to intercept UBG R-170 to UBG VOR/DME, thence ...

Rwy 17,22, climbing left turn to intercept UBG R-183 to UBG VOR/DME, thence ... or for climb in visual conditions: cross Mc Minnville Muni at or above 1800 before proceeding on course. **Rwy 35**, climb heading 347° to intercept UBG R-221 to UBG VOR/DME, thence...

... continue climb in UBG VOR/DME holding pattern (S, left turns, 003° inbound) until reaching MEA for route of flight.

NOTE: **Rwy 4**, multiple trees beginning 2040' from departure end of runway, 353' left and 209' right of centerline, up to 100' AGL/339 feet MSL. **Rwy 17**, tree 1719' from departure end of runway, 456' right of centerline, 100' AGL/231' MSL. Tree 1760' from departure end of runway, 627' left of centerline, 100' AGL/257' MSL. **Rwy 22**, multiple trees beginning 282' from departure end of runway, 120' left and 144' right of centerline, up to 100' AGL/246' MSL. Tree 4047' from departure end of runway, 1319' left of centerline, 100' AGL/284' MSL. **Rwy 35**, multiple trees beginning 1551' from departure end of runway, 229' right of centerline, up to 100' AGL/277' MSL.

MEDFORD, OR

ROGUE VALLEY INTL-MEDFORD (MFR)

AMDT 9 09015 (FAA)

TAKE-OFF MINIMUMS: **Rwys 9,27**, NA-Obstacles.

Rwy 14, std. w/ min. climb of 430' per NM to 4600, or 2900-3 for climb in visual conditions. **Rwy 32**, std. with a min. climb of 260' per NM to 6800, or 2900-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 14**, climbing right turn direct OED VORTAC, or for climb in visual conditions, cross Rogue Valley Intl airport at or above 4100 before proceeding direct OED VORTAC...

Rwy 32, climbing right turn direct OED VORTAC, or for climb in visual conditions, cross Rogue Valley Intl airport at or above 4100 before proceeding direct OED VORTAC...

...all aircraft climb in OED VORTAC holding pattern (hold NW, right turns, 153° inbound) to cross OED VORTAC at or above 6400.

MISSOULA, MT

MISSOULA INTL (MSO)

AMDT 8 08213 (FAA)

TAKE-OFF MINIMUMS: **Rwys 7,25**, NA-Obstacles.

DEPARTURE PROCEDURE: **Rwys 11, 29**, use GRZLY DEPARTURE.

MOSES LAKE, WA

GRANT COUNTY INTL

NOTE: **Rwy 14R**, antenna 3902' from departure end of runway, 828' right of centerline, 98' AGL/1268' MSL.

Rwy 18, pole 405' from departure end of runway, 334' right of centerline, 30' AGL/1209' MSL. Windsock 496' from departure end of runway, 371' left of centerline, 16' AGL/1195' MSL. **Rwy 32L**, pole 1326' from departure end of runway, 373' left of centerline, 22' AGL/1202' MSL.

MOUNTAIN HOME AFB (KMUO)

MOUNTAIN HOME, ID 07270

Rwy 12,30, 6700-3*

* Or standard with minimum climb of 270'/NM to 9100.

TAKE-OFF OBSTACLES: **Rwy 12**, Terrain 0' AGL/3028' MSL, 1224' from DER, 744' right of centerline. Terrain 0' AGL/3035' MSL, 824' from DER, 721' right of centerline. Terrain 0' AGL/3035' MSL, 507' from DER, 636' right of centerline. Terrain 0' AGL/3022' MSL, 49' from DER, 202' right of centerline. Terrain 0' AGL/3018' MSL, 148' from DER, 328' left of centerline. Terrain 0' AGL/3016' MSL, 300' from DER, 580' left of centerline. Road/Vehicle 15' AGL/3044' MSL, 1147' from DER, 794' right of centerline. Power pole 35' AGL/3069' MSL, 2914' from DER, 940' right of centerline. Tower 30' AGL/3032' MSL, 1067' from DER, 902' right of centerline. Tower 28' AGL/3039' MSL, 1172' from DER, 796' right of centerline. Tower 45' AGL/3054' MSL, 2152' from DER, 1478' left of centerline. **Rwy 30**, Terrain 0' AGL/2995' MSL, 40' from DER, 492' left of centerline. Terrain 0' AGL/2999' MSL, 370' from DER, 467' right of centerline. Terrain 0' AGL/3006' MSL, 507' from DER, 636' right of centerline. Terrain 0' AGL/3007' MSL, 570' from DER, 653' right of centerline. Road/Vehicle 35' AGL/3019' MSL, 954' from DER, 773' left of centerline.

MOUNTAIN HOME, ID

MOUNTAIN HOME MUNI

TAKE-OFF MINIMUMS: **Rwy 10**, 3500-2 or std. with a min. climb of 305' per NM to 7300. **Rwy 28**, 3500-2 or std. with a min. climb of 290' per NM to 7300.

DEPARTURE PROCEDURE: **Rwy 10**, climbing left turn direct STI NDB. **Rwy 28**, climbing right turn direct STI NDB. All aircraft departing STI NDB bearing 080° CW 340° climb on course. All others continue climb in hold (E, left turns, 271° inbound) to cross STI NDB at or above 7300.

NAMPA, ID

NAMPA MUNI

DEPARTURE PROCEDURE: **Rwy 11**, climbing right turn direct MPA NDB, continue climb in MPA holding pattern (NW, right turns, 145° inbound). Depart MPA NDB at or above 5500 before proceeding on course.

Rwy 29, climb runway heading to 3700 then climbing right turn direct MPA NDB, continue climb in MPA holding pattern (NW, right turns, 145° inbound). Depart MPA NDB at or above 5500 before proceeding on course.

NOTE: **Rwy 11**, 70' AGL tree, 1225' from departure end of runway, 90' right of centerline.

NEWCASTLE, WY

MONDELL FIELD (ECS)

AMDT 3A 09267 (FAA)

TAKE-OFF MINIMUMS: **Rwy 5,17,23,35, NA. Rwy 13**, 200-1 or std. with a min. climb of 275' per NM to 4400'.
Rwy 31, 300-1 or std. with a min. climb of 300' per NM to 4600.

DEPARTURE PROCEDURE: **Rwy 31**, climbing left turn. **All aircraft** climb to 5500 via ECS R-143, then climbing right turn direct ECS VOR, continue climb on course.

NOTE: **Rwy 13**, fence posts, beginning 299' from DER, 218' left of centerline, up to 10' AGL/4190' MSL. Light on antenna 1951' from DER, 879' left of centerline, 84' AGL/4244' MSL. **Rwy 31**, multiple poles, beginning 74' from DER, 237' right of centerline, up to 20' AGL/4200' MSL. Bush 5787' from DER, 1441' right of centerline, 13' MSL/4363' MSL. Railroad 735' from DER, 314' right of centerline 30' AGL/4202' MSL. Road 207' from DER, 254' right of centerline, 15' AGL/4187' MSL.

NEWPORT, OR

NEWPORT MUNI

TAKE-OFF MINIMUMS: **Rwy 2, NA. Rwy 16**, 500-2 or std. with a min. climb of 310' per NM to 800.

DEPARTURE PROCEDURE: **Rwy 2, NA. Rwy 16**, turn right. **Rwy 34**, turn left. Aircraft departing via ONP R-180 CW R-320 depart on course. All others continue climbing via ONP R-200 to 1500 then climbing left turn direct ONP VORTAC. Cross ONP VORTAC at or above 2200.

NORTH BEND, OR

SOUTHWEST OREGON RGNL (OTH)

AMDT 4B 09071 (FAA)

TAKE-OFF MINIMUMS: **Rwy 4**, 800-2 or std. with a min. climb of 340' per NM to 900. **Rwy 13**, 800-2. **Rwys 16,34**, NA-Rwy closed. **Rwy 31**, 300-2 or std. with a min. climb of 240' per NM to 400.

DEPARTURE PROCEDURE: **Rwys 4,31**, turn left. **Rwys 13,22**, turn right. **All aircraft** climb via OTH VORTAC R-250 to 1300 then climbing right turn direct OTH VORTAC.

NOTE: **Rwy 13**, spire 3468' from departure end of runway, 1128' left of centerline, 55' AGL/243' MSL, multiple trees beginning 3068' from departure end of runway, 78' left of centerline, up to 132' AGL/291' MSL.

OAK HARBOR, WA

A J EISENBERG (OKH)

ORIG-A 09071 (FAA)

TAKE-OFF MINIMUMS: **Rwy 7**, 300-1. **Rwy 25**, 300-1 DEPARTURE PROCEDURE: **Rwy 7**, climb via heading 071° to 2000, then climbing right turn direct CVV VOR/DME. Continue climb on course. **Rwy 25**, climb via heading 251° to 2100, then climbing left turn direct CVV VOR/DME. Continue climb on course.

NOTE: **Rwy 7**, multiple trees beginning 1167' from DER, 212' left of centerline, up to 80' AGL/319' MSL. Multiple trees beginning 664' from DER, 208' right of centerline, up to 80' AGL/299' MSL. Fence 612' from DER, right and left of centerline, 10' AGL/229' MSL. Multiple bushes beginning 240' from DER, 64' left of centerline, up to 8' AGL/227' MSL. **Rwy 25**, cars on road 87' from DER, left and right of centerline, up to 15' AGL/174' MSL. Multiple trees beginning 2271' from DER, right and left of centerline, up to 80' AGL/279' MSL.

OLYMPIA, WA

OLYMPIA RGNL (OLM)

AMDT 5A 09127 (FAA)

TAKE-OFF MINIMUMS: **Rwy 17**, 300-2 or std. with a min. climb of 706' per NM to 600, or 2200-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 8**, climb heading 085° to 1000 then climbing left turn direct OLM VORTAC, thence... **Rwy 17**, climb heading 172° to 1200 then climbing right turn direct OLM VORTAC, thence... or climb in visual conditions to cross OLM VORTAC at or above 2300, thence... **Rwys 5,26,35**, climbing right turn direct OLM VORTAC, thence...

...continue climb in OLM VORTAC holding pattern (south, right turn, 356° inbound) to cross OLM VORTAC at or above MEA/MCA for route of flight.

NOTE: **Rwy 8**, multiple trees beginning 880' from DER, 214' left of centerline, up to 100' AGL/343' MSL. Multiple trees beginning 1636' from DER, 131' right of centerline, up to 100' AGL/320' MSL. **Rwy 17**, multiple trees beginning 1008' from DER, 24' left of centerline, up to 100' AGL/490' MSL. Multiple trees beginning 752' from DER, 3' right of centerline, up to 100' AGL/370' MSL. **Rwy 26**, multiple trees and WSK on building beginning 475' from DER, 595' left of centerline, up to 100' AGL/330' MSL. Multiple trees beginning 338' from DER, 339' right of centerline, up to 100' AGL/309' MSL. **Rwy 35**, multiple trees beginning 2176' from DER, 198' left of centerline, up to 100' AGL/313' MSL. Multiple trees and field light on hangar beginning 657' from DER, 621' right of centerline, up to 100' AGL/315' MSL.

OMAK, WA

OMAK

TAKE-OFF MINIMUMS: **Rwy 17**, 2200-2 or std. with a min. climb of 300' per NM to 4200. **Rwy 35**, NA.

DEPARTURE PROCEDURE: **Rwy 17**, use GETNG RNAV DEPARTURE. **Rwy 35**, NA.

ONTARIO, OR

ONTARIO MUNI (ONO)

AMDT 3 08325 (FAA)

DEPARTURE PROCEDURE: **Rwy 32**, climb to 9600 on a heading between 010° CW to 141° from departure end of runway or minimum climb of 280' per NM to 9600 for all other courses.

NOTE: **Rwy 14**, multiple trees, poles, and buildings beginning 90' from departure end of runway, 157' right of centerline up to 120' AGL/2314' MSL. Multiple trees, poles, and buildings beginning 502' from departure end of runway, 506' left of centerline up to 120' AGL/2314' MSL. **Rwy 32**, multiple trees, poles, and buildings beginning 340' from departure end of runway, 405' left of centerline up to 100' AGL/2458' MSL. Multiple trees, poles, and buildings beginning 2' from departure end of runway, 472' right of centerline up to 100' AGL/2431' MSL.

PASCO, WA

TRI-CITIES

DEPARTURE PROCEDURE: **All runways**, climb runway heading to 1000, thence... **Rwy 12**, turn left. All others turn right. **All aircraft** climb direct PSC VOR/DME before proceeding on course.

PENDLETON, OR

EASTERN OREGON RGNL AT PENDLETON (PDT)

AMDT 3 09183 (FAA)

DEPARTURE PROCEDURE: **Rwys 7, 29, 34**, climbing left turn direct PDT VORTAC, thence...

Rwys 11, 16, climbing right turn direct PDT VORTAC, thence...

Rwy 25, climb direct PDT VORTAC, thence...

...continue climb in PDT VORTAC holding pattern (West, left turn, 073° inbound) to cross PDT VORTAC at or above MEA before proceeding on course.

NOTE: **Rwy 16**, multiple trees beginning 232' from DER, 348' right of centerline, up to 100' AGL/1579' MSL.

Rwy 25, multiple antennas and terrain beginning 203' from DER, 259' left of centerline, up to 13' AGL/1512' MSL. **Rwy 29**, terrain 189' from DER, 247' left of centerline, 1493' MSL.

PINEDALE, WY

PINEDALE/RALPH WENZ FIELD (PNA)

AMDT 2 09295 (FAA)

TAKE-OFF MINIMUMS: **Rwy 29**, std. with a min. climb of 310' per NM to 8300, or 4900-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 11**, climbing right turn to 10000 via heading 190° and BPI R-040 to BPI VOR/DME before proceeding on course. **Rwy 29**, climbing left turn to 10000 via heading 230° and BPI R-020 to BPI VOR/DME before proceeding on course or for climb in visual conditions: cross Pinedale/Ralph Wenz Field at or above 11800 before proceeding on course.

PLENTYWOOD, MT

SHER-WOOD

NOTE: **Rwy 12**, multiple bushes beginning 47' from departure end of runway, 71' left of centerline, up to 12' AGL/2251' MSL. Multiple bushes beginning 362' from departure end of runway, 514' right of centerline, up to 12' AGL/2251' MSL. **Rwy 30**, multiple bushes and road beginning 68' from departure end of runway, 75' right of centerline, up to 12' AGL/2303' MSL. Multiple bushes beginning 217' from departure end of runway, 60' left of centerline, up to 12' AGL/2296' MSL.

POCATELLO, ID

POCATELLO RGNL (PIH)

AMDT 7 09351 (FAA)

DEPARTURE PROCEDURE: use KNURL ONE DEPARTURE.

POLSON, MT

POLSON

TAKE-OFF MINIMUMS: **Rwy 18**, N/A-extremely precipitous terrain. **Rwy 36**, standard with a min. climb of 270' per NM to 8400'.

DEPARTURE PROCEDURE: **Rwy 36**, Use ANGIL RNAV DEPARTURE.

NOTES: **Rwy 36**, Road 509' from departure end of runway, 2955' MSL. Trees 2.39 NM from departure end of runway, 3383' left of centerline, 100' AGL/3179 MSL. Rapidly rising precipitous terrain left and right of centerline running along southern Flathead River ridges.

PORT ANGELES, WA

PORT ANGELES CGAS

DEPARTURE PROCEDURE: Copter departure, climb from landing area direct to EDIZ HOOK NDB.

Continue climb in holding pattern (NE, right turns, 237° inbound) to MEA for direction of flight.

WILLIAM R FAIRCHILD INTL

DEPARTURE PROCEDURE: **Rwys 8, 13, 26, 31**, use WATTFIVE DEPARTURE.

PORTLAND, OR

PORTLAND INTL (PDX)

AMDT 6 09015 (FAA)

TAKE-OFF MINIMUMS: **Rwy 3**, 500-3 or std. w/ min. climb of 400' per NM to 600. **Rwy 10L/R**, std. w/ min. climb of 270' per NM to 2900. **Rwy 21**, std. w/ min. of 310' per NM to 1800.

DEPARTURE PROCEDURE: **Rwy 3**, climb heading 025° to 700, then climbing left turn direct BTG VORTAC, thence... **Rwys 10L, 10R**, climb heading 099° to 500, then climbing left turn direct BTG VORTAC, thence... **Rwy 21**, climb heading 205.03 to 500, then climbing right turn direct BTG VORTAC, thence... **Rwys 28L, 28R**, climb heading 279° to 500, then climbing right turn direct BTG VORTAC, thence... continue climb in BTG VORTAC holding pattern (hold NW, right turns, 149° inbound) to cross BTG VORTAC at or above MCA/MEA before proceeding on course.

NOTE: **Rwy 3**, signs, tower, trees, and vehicle on road beginning 468' from departure end of runway, 28' left of centerline, up to 100' AGL/449' MSL. Poles, trees, and vehicle on road beginning 609' from departure end of runway, 7' left of centerline, up to 100' AGL/416' MSL. **Rwy 10L**, rising terrain and vehicle on road beginning 7' from departure end of runway, 376' left of centerline, up to 17' AGL/60' MSL. **Rwy 10R**, pole 1996' from departure end of runway, 758' right of centerline, 54' AGL/74' MSL. note: **Rwy 21**, trees beginning 1319' from departure end of runway, 155' right of centerline, up to 100' AGL/318' MSL. Poles and trees beginning 353' from departure end of runway, 36' left of centerline, up to 100' AGL/317' MSL. **Rwy 28L**, trees 1873' from departure end of runway, 836' left of centerline, 50' AGL/88' MSL.

Rwy 28R, multiple signs, poles, and vehicle on road beginning 876' from departure end of runway, 654' right of centerline, up to 27' AGL/69' MSL.

PORTLAND, OR (CON'T)

PORTLAND-HILLSBORO

TAKE-OFF MINIMUMS: **Rwy 30**, 200-1¼ or std. with a min. climb of 223' per NM to 500. Alternatively, with standard take-off minimums and a normal 200'/NM climb gradient, take-off must occur no later than 1600' prior to departure end of runway.

DEPARTURE PROCEDURE: **Rwy 12**, climbing right turn direct UBG VOR/DME... **Rwys 2, 20, 30**, climbing left turn direct UBG VOR/DME...

...all aircraft climb in UBG VOR/DME holding pattern (west, right turn, 108° inbound) to cross UBG VOR/DME at or above MEA/MCA for direction of flight before proceeding on course.

NOTE: **Rwy 2**, multiple roads beginning 246' from departure end of runway, 3' right of centerline, up to 15' AGL/220' MSL. **Rwy 12**, multiple trees beginning 1842' from departure end of runway, 222' left of centerline, up to 125' AGL/324' MSL. Multiple trees beginning 3629' from departure end of runway, 46' right of centerline, up to 143' AGL/332' MSL. **Rwy 20**, multiple trees and pole beginning 967' from departure end of runway, 118' left of centerline, up to 93' AGL/292' MSL. Vent of hangar 63' from departure end of runway, 428' left of centerline, 26' AGL/225' MSL. Multiple trees and antenna on building beginning 965' from departure end of runway, 449' right of centerline, up to 74' AGL/273' MSL. **Rwy 30**, multiple trees beginning 1664' from departure end of runway, 623' right of centerline, up to 194' AGL/363' MSL. Pole 702' from departure end of runway, 603' left of centerline, 26' AGL/215' MSL.

PORTLAND-TROUTDALE

TAKE-OFF MINIMUMS: **Rwy 7**, 3600-2 or std. with a min. climb of 380' per NM to 4100. **Rwy 25**, 900-2 or std. with a min. climb of 360' per NM to 1000.

DEPARTURE PROCEDURE: **Rwy 7**, turn left. **Rwy 25**, turn right. All aircraft climb via BTGR-125 direct BTG VORTAC. Continue climb on BTG R-329 within 10 NM to cross BTG VORTAC at or above: BTG R-355 CW R-055 or R-085 CW R-115 5000; all others 2500.

POWELL, WY

POWELL MUNI

TAKE-OFF MINIMUMS: **Rwy 3, 16, 21, 34**, NA.

DEPARTURE PROCEDURE: **Rwy 13**, turn right.

Rwy 31, turn left. All aircraft climb direct COD VOR/DME. Aircraft departing COD R-350 CW R-170 climb on course. All others continue climb in COD VOR/DME holding pattern (N, left turns, 189° inbound) to cross COD VOR/DME at or above 8800

PRINEVILLE, OR

PRINEVILLE (S39)

AMDT 1 08213 (FAA)

TAKE-OFF MINIMUMS: **Rwy 10**, std. w/min. climb of 350 feet per NM to 6500, or 2400-3 for climb in visual conditions. **Rwy 15**, std. w/min. climb of 470' per NM to 6200, or 2400-3 for climb in visual conditions. **Rwy 28**, std. w/min. climb of 450' per NM to 6700, or 2400-3 for climb in visual conditions. **Rwy 33**, std. w/min. climb of 380' per NM to 6700, or 2400-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 10**, climb heading 102° to 6500 before proceeding on course or for climb in visual conditions cross Prineville Muni airport at or above 5600 before proceeding on course. **Rwy 15**, climb heading 154° to 6200 before proceeding on course or for climb in visual conditions cross Prineville Muni airport at or above 5600 before proceeding on course. **Rwy 28**, climb heading 282° to 6700 before proceeding on course or for climb in visual conditions cross Prineville Muni airport at or above 5600 before proceeding on course. **Rwy 33**, climb heading 334° to 6700 before proceeding on course or for climb in visual conditions cross Prineville Muni airport at or above 5600 before proceeding on course.

NOTE: **Rwy 10**, trees beginning 2693' from departure end of runway, 545' right of centerline, up to 100' AGL/3339' MSL. **Rwy 15**, trees beginning 1129' from departure end of runway, 697' right of centerline, up to 100' AGL/3319' MSL. **Rwy 28**, trees beginning 1803' from departure end of runway, 74' right of centerline, up to 100' AGL/3319' MSL. **Rwy 33**, trees beginning 2636' from departure end of runway, 379' right of centerline, up to 100' AGL/3319' MSL.

PULLMAN-MOSCOW, WA

PULLMAN-MOSCOW RGNL

TAKE-OFF MINIMUMS: **Rwy 5**, 300-1¼ with a min. climb of 278' per NM to 4400, or 4600-3 for climb in visual conditions. **Rwy 23**, 300-1 or std. with a min. climb of 361' per NM to 4700.

DEPARTURE PROCEDURE: **Rwy 5**, climbing left turn direct PUW VOR/DME, cross PUW VOR/DME at or above 4700, continue climb in PUW VOR/DME holding pattern (SW, left turn, 032° inbound) to cross PUW VOR/DME at or above MEA for direction of flight, or for climb in visual conditions; cross Pullman-Moscow Rgnl at or above 4500. **Rwy 23**, climbing left turn via PUW VOR/DME R-021, cross PUW VOR/DME at or above 4700, continue climb in PUW VOR/DME holding pattern (SW, left turn, 032° inbound) to cross PUW VOR/DME at or above MEA for direction of flight.

NOTE: **Rwy 5**, multiple trees and terrain left and right of centerline, beginning 614' from departure end of runway, 424' right of centerline up to 50' AGL/2677' MSL. Terrain 3503' from departure end of runway, 770' left of centerline, 50' AGL/2608' MSL. **Rwy 23**, multiple trees, terrain, fences, poles, and tanks beginning 669' from departure end of runway, 412' right of centerline, up to 52' AGL/2769' MSL.

PUYALLUP, WA

PIERCE COUNTY-THUN FIELD (PLU)
AMDT 1A 09071 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16, 34**, 300-1.

DEPARTURE PROCEDURE: **Rwy 16**, climbing right turn. **Rwy 34**, climb runway heading. **All aircraft** climb via SEAR-158 to COTNY INT/SEA 18.1 DME.

Continue in COTNY holding pattern (Hold S, left turns, 338° inbound) to depart COTNY at or above: 001° CW 090° 3500, 090° 3500, 091° CW 120° 10,400, 121° CW 170° 2700, 171° CW 360° 1500.

NOTE: **Rwy 16**, light pole 511' from DER, 567' right of centerline, 40' AGL/552' MSL. Multiple poles on building beginning 187' from DER, 416' left of centerline, up to 575' MSL. Multiple trees beginning 363' from DER, 656' left of centerline to 540' right of centerline, up to 662' MSL. Vehicles on road beginning 1149' from DER, 512' right of centerline, up to 15' AGL/582' MSL. Terrain beginning 1293' from DER, 529' left of centerline to 352' right of centerline, up to 581' MSL. Pipe 1520' from DER, 303' left of centerline, 574' MSL. **Rwy 34**, multiple trees beginning 58' from DER, 591' left of centerline to 1029' right of centerline, up to 694' MSL. Flagpole 1155' from DER, 464' left of centerline, 578' MSL. Building 564' from DER, 410' left of centerline, 555' MSL.

RAWLINS, WY

TAKEALINS MUNI/HARVEY FIELD

TAKE-OFF MINIMUMS: **Rwy 4**, 600-2 or std. with a min. climb of 440' per NM to 7500. **Rwy 22**, 1500-2 or std. with a min climb of 365' per NM to 8700. **Rwys 10, 28**, NA.

DEPARTURE PROCEDURE: **Rwy 4**, turn right.

Rwy 22, turn left. Climb to 10000 via RWL R-200 and CKW R-080 to CKW VOR/DME then via assigned route. Aircraft departing eastbound V4 or V6 climb via RWL R-200 to assigned route then climb on course.

REDMOND, OR

ROBERTS FIELD (RDM)
AMDT 5 09183 (FAA)

TAKE-OFF MINIMUMS: **Rwy 22**, std. w/ min. climb of 269' per NM to 4700. **Rwy 28**, std. w/ min. climb of 276' per NM to 4800.

DEPARTURE PROCEDURE: **Rwy 4**, climbing left turn via heading 265° and DSD R-047 to DSD VORTAC, climb in DSD VORTAC holding pattern (hold North, right turn, 168° inbound) to cross DSD VORTAC at or above MEA for route of flight before proceeding on course. **Rwy 10**, climbing right turn via heading 240° and DSD R-090 to DSD VORTAC, climb in DSD VORTAC holding pattern (hold North, right turn, 168° inbound) to cross DSD VORTAC at or above MEA for route of flight before proceeding on course. **Rwy 22**, climb heading 222° and DSD R-090 to DSD VORTAC, climb in DSD VORTAC holding pattern (hold North, right turn, 168° inbound) to cross DSD VORTAC at or above MEA for route of flight before proceeding on course. **Rwy 28**, climbing left turn via heading 275° and DSD R-045 to DSD VORTAC, climb in DSD VORTAC holding pattern (hold North, right turn, 168° inbound) to cross DSD VORTAC at or above MEA for route of flight before proceeding on course.

NOTE: **Rwy 28**, numerous trees beginning 1' from DER, 356' right of centerline, 12' AGL/3079' MSL. Tree 364' from DER, 448' left of centerline, 15' AGL/3054' MSL.

RENTON, WA

RENTON MUNI (RNT)
AMDT 7 09351 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, std. with a min. climb of 405' per NM to 800, or 1100-2½ for climb in visual conditions. **Rwy 34**, 500-2¼ or std. with a min. climb of 315' per NM to 700.

DEPARTURE PROCEDURE: **Rwy 16**, climb heading 157° to 700, then climbing right turn direct SEA VORTAC, thence..., or for climb in visual conditions: cross Renton Muni Airport westbound at or above 1000 MSL, then proceed on SEAR R-029 to SEA VORTAC, thence... **Rwy 34**, Climb heading 337° to 700, then climbing left turn direct SEA VORTAC thence ...
...Climb in SEA VORTAC holding pattern (East, left turns, 290° inbound) to cross SEA VORTAC at or above MEA/MCA for direction of flight.

NOTES: **Rwy 16**, trees, towers, lights and blast shield beginning 185' from DER, 4' left of centerline, up to 100' AGL/574' MSL. Trees, lights and sign beginning 40' from DER, 54' right of centerline, up to 100' AGL/297' MSL. **Rwy 34**, Trees and terrain beginning 1.6 NM from DER, 104' left of centerline, up to 100' AGL/485' MSL. Trees, terrain and wood piling beginning 75' from DER, 7' right of centerline, up to 100' AGL/426' MSL.

REXBURG, ID

REXBURG-MADISON COUNTY

DEPARTURE PROCEDURE: **Rwy 17**, climbing right turn. **Rwy 35**, climbing left turn. **All aircraft** climb via IDA VOR/DME R-015 to RIGBY Int to MEA for route of flight before proceeding on course.

NOTE: **Rwy 17**, 100' AGL trees 125' from departure end of runway, 350' left of centerline. **Rwy 35**, 100' AGL trees 350' from departure end of runway, 450' right of centerline. 100' AGL trees 750' from departure end of runway, 500' left of centerline.

RICHLAND, WA

RICHLAND

TAKE-OFF MINIMUMS: **Rwy 1**, 200-1 or std. w/min. climb of 310' per NM to 700. **Rwy 19**, std. w/min. climb of 480' per NM to 2300, or 1800-2½ for climb in visual conditions. **Rwy 26**, 500-2½ or std. w/min. climb of 309' per NM to 1000.

DEPARTURE PROCEDURE: **Rwy 1**, climbing right turn via heading 070° and PSC R-301 to PSC VOR/DME, thence...**Rwy 8**, climbing right turn direct PSC VOR/DME, thence...**Rwy 19**, climbing right turn via heading 040° and PSC R-269 to PSC VOR/DME, or for climb in visual conditions: cross Richland Airport at or above 2000 then proceed on PSC R-269, to PSC VOR/DME thence...**Rwy 26**, climbing right turn via heading 070° and PSC R-287 to PSC VOR/DME, thence...

...climb in PSC VOR/DME holding pattern (hold East, right turn, 291° inbound) to cross PSC VOR/DME at or above MEA for route of flight before proceeding on course.

NOTE: **Rwy 1**, crane and multiple poles 752' from departure end of runway, 477' right of centerline, up to 110' AGL/520' MSL. Trees 43' from departure end of runway, 414' left of centerline, 100' AGL/407' MSL. **Rwy 8**, multiple trees and railroad beginning 400' from departure end of runway, 252' right of centerline, up to 100' AGL/469' MSL. Multiple trees and railroad beginning 204' from departure end of runway, 241' left of centerline, up to 100' AGL/469' MSL. **Rwy 19**, multiple trees 64' from departure end of runway, 169' right of centerline, up to 100' AGL/679' MSL. Multiple trees, terrain, and buildings 22' from departure end of runway, 30' left of centerline, up to 100' AGL/479' MSL. **Rwy 26**, multiple trees, fence, and terrain beginning 458' from departure end of runway, 230' left of centerline, up to 100' AGL/839' MSL. Multiple posts, antenna, and terrain beginning 164' from departure end of runway, 255' right of centerline, up to 18' AGL/417' MSL.

RIVERTON, WY

RIVERTON RGNL (RIW)

AMDT 1 10042 (FAA)

DEPARTURE PROCEDURE: **Rwys 1, 10, 19, 28**, climbing right turn direct RIW VOR/DME. **All Aircraft** climb in RIW holding pattern (hold East, right turns, 287° inbound) to MEA for direction of flight.

NOTES: **Rwy 1**, sage brush beginning 35' from DER, left and right of centerline, up to 3' AGL/5499' MSL. **Rwy 10**, sage brush beginning 20' from DER, left and right of centerline, up to 3' AGL/5466' MSL. **Rwy 19**, sage brush beginning 49' from DER, 171' right of centerline, up to 3' AGL/5479' MSL. Windstocks beginning 154' from DER, 268' right of centerline, up to 28' AGL/5468' MSL. **Rwy 28**, sage brush, tower, and pole beginning 54' from DER, 154' right of centerline, up to 59' AGL/5679' MSL. Sage brush, fence, and poles beginning 132' from DER, 27' left of centerline, up to 67' AGL/5647' MSL.

ROCK SPRINGS, WY

ROCK SPRINGS-SWEETWATER COUNTY (RKS)

AMDT 6 10098 (FAA)

DEPARTURE PROCEDURE: **Rwy 3**, climb heading 032° to 8000 then climbing left turn direct OCS VOR/DME, continue climb in OCS VOR/DME holding pattern (hold East, right turns, 260° inbound) to cross OCS VOR/DME at or above MEA for route of flight. **Rwy 9**, climb heading 090° to 8200 then climbing left turn direct OCS VOR/DME, continue climb in OCS VOR/DME holding pattern (hold East, right turns, 260° inbound) to cross OCS VOR/DME at or above MEA for route of flight. **Rwy 21**, climb heading 212° to 8400, then climbing right turn direct OCS VOR/DME, continue climb in OCS VOR/DME holding pattern (hold East, right turns, 260° inbound) to cross OCS VOR/DME at or above MEA for route of flight. **Rwy 27**, climb heading 270° to 7900, then climbing right turn via OCS R-291 to OCS VOR/DME, continue climb in OCS VOR/DME holding pattern (hold East, right turns, 260° inbound) to cross OCS VOR/DME at or above MEA for route of flight.

NOTE: **Rwy 3**, vehicle on road beginning 22' from DER, 120' left of centerline, up to 20' AGL/6760' MSL, bushes beginning 178' from DER, 517' right of centerline, up to 15' AGL/6755' MSL. **Rwy 21**, bush 53' from DER, 221' left of centerline, 15' AGL/6737' MSL.

RONAN, MT

RONAN (7S0)

ORIG 09295 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, std. w/min. climb of 260' per NM to 9900 or 6100-3 for climb in visual conditions. **Rwy 34**, std. w/min. climb of 250' per NM to 9900 or 6100-3 in visual conditions.

DEPARTURE PROCEDURE: **Rwy 16**, climb to 8800 on a heading between 177° CW to 336° from DER or for climb in visual conditions, cross Ronan airport at or above 9000 before proceeding on course. **Rwy 34**, climb to 8800 on a heading between 336° CCW to 177° from DER or for climb in visual conditions, cross Ronan airport at or above 9000 before proceeding on course.

NOTE: **Rwy 16**, tree 485' from DER, 386' left of centerline 50' AGL/3149' MSL. **Rwy 34**, building 158' from DER, 370' left of centerline 40' AGL/3130' MSL. Tree 1358' from DER, 556' left of centerline 50' AGL/3149' MSL.

ROSEBURG, OR

ROSEBURG RGNL (RBG)

AMDT 5A 08297 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, std. with a min. climb of 642' per NM to 2000, or 1700-3 for climb in visual conditions. **Rwy 34**, std. with a min. climb of 760' per NM to 2000, or 1700-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 16**, climb direct RBG VOR/DME, or climb in visual conditions to cross Roseburg Airport southbound at or above 2200, then direct RBG VOR/DME. Then via RBG R-157 and right turn direct RBG VOR/DME to cross at or above the MCA or MEA for route of flight. **Rwy 34**, climb via heading 342° to 4000, or climb in visual conditions to cross Roseburg Airport northbound at or above 2200 and then via heading 342° to 4000. Then climbing left turn direct RBG VOR/DME, to cross RBG VOR/DME at or above MCA or MEA for route of flight. Aircraft that have not reached the MCA or MEA for route of flight continue climb via RBG R-157 and right turn direct RBG VOR/DME.

NOTE: **Rwy 16**, tower 1.56 NM from departure end of runway, 2231' right of centerline, 50' AGL/1201' MSL, tree 1.47 NM from departure end of runway, 1560' right of centerline, 21' AGL/980' MSL, tree 1.46 NM from departure end of runway, 1298' right of runway centerline, 45' AGL/964' MSL, pole 1.36 NM from departure end of runway, 921' right of centerline, 75' AGL/914' MSL, rod on airway beacon 1.29 NM from departure end of runway, 409' right of centerline, 52' AGL/891' MSL, tree 655' from departure end of runway, 347' right of runway centerline, 93' AGL/593' MSL, obstruction light on pole 691' from departure end of runway, 187' right of runway centerline, 117' AGL/557' MSL. **Rwy 34**, tree 1.10 NM from departure end of runway, 2003' left of runway centerline, 60' AGL/1179' MSL. Tree 5165' from departure end of runway, 1744' left of centerline, 64' AGL/1023' MSL. Obstruction light on pole 4850' from departure end of runway, 56' left of centerline, 15' AGL/894' MSL. Tree 4785' from departure end of runway, 48' left of runway centerline, 23' AGL/862' MSL. Tree 1.41 NM from departure end of runway, 1826' left of runway centerline, 17' AGL/896' MSL. Tree 4079' from departure end of runway, 508' left of runway centerline, 21' AGL/780' MSL. Tree 5067' from departure end of runway, 265' right of centerline, 43' AGL/802' MSL. Tree 4260' from departure end of runway, 345' right of centerline, 42' AGL/761' MSL. Tree 1465' from departure end of runway 329' right of runway centerline, 100' AGL/642' MSL. Tree 913' from departure end of runway, 217' right of runway centerline, 100' AGL/622' MSL. Tree 647' from departure end of runway, 345' right of runway centerline, 100' AGL/615' MSL. Hill 1065' from departure end of runway, 299' right of runway centerline 608' MSL. Trees beginning 60' from departure end of runway, 117' left of runway centerline, up to 16' AGL/554' MSL. Trees beginning 242' from departure end of runway, 209' right of runway centerline, up to 56' AGL/584' MSL. Vehicle on road 265' from departure end of runway, 229' right of runway centerline, 15' AGL/560' MSL. Multiple signs beginning 792' from departure end of runway, 550' left of runway centerline, up to 60' AGL/565' MSL. Bush 94' from departure end of runway, 228' right of runway centerline, 19' AGL/547' MSL. Bush 202' from departure end of runway, 92' left of centerline, 7' AGL/535' MSL. Pole 640' from departure end of runway, 354' left of runway centerline, 29' AGL/557' MSL.

SALEM, OR

MCNARY FIELD

TAKE-OFF MINIMUMS: **Rwy 13**, 600-2 or std. with a min. climb of 240' per NM to 800. **Rwy 16**, 600-2 or std. with a min. climb of 340' per NM to 800.

DEPARTURE PROCEDURE: Comply with SIDs or; **Rwys 31, 34**, turn right. **Rwy 16**, turn left. **Rwy 13**, climb heading 130°. **All aircraft** climb direct TURN O LOM/Int. Continue climb in holding (SE, left turns, 310° inbound) to cross TURN O LOM/INT at or above MEA for route of flight.

SALMON, ID

LEMHI COUNTY

TAKE-OFF MINIMUMS: **Rwy 17**, NA. **Rwy 35**, 4300-5 or std. with a min. climb of 390' per NM to 8000.

DEPARTURE PROCEDURE: **Rwy 17**, NA. **Rwy 35**, climb runway heading to 8000, then climbing left turn to 11,300 direct LKT VOR/DME before proceeding on course.

SANDPOINT, ID

SANDPOINT

TAKE-OFF MINIMUMS: **Rwy 1**, 4200-2 or std. with a min. climb of 520' per NM to 5800. **Rwy 19**, 2200-2 or std. with a min. climb of 480' per NM to 4600.

DEPARTURE PROCEDURE: **Rwy 1**, climbing right turn to COE VOR/DME via heading 200° and COE R-002. **Rwy 19**, climbing left turn to COE VOR/DME via heading 140° and COE R-002.

SARATOGA, WY

SHIVELY FIELD

TAKE-OFF MINIMUMS: **Rwy 23**, 400-1 or std. with a min. climb of 220' per NM to 7400.

DEPARTURE PROCEDURE: **Rwy 5**, turn left heading 280°. **Rwy 23**, turn right heading 340°. **All aircraft** climb to 9000 via 310° bearing from SAA NDB then continue climb on course.

SCAPPOOSE, OR

SCAPPOOSE INDUSTRIAL AIRPARK

DEPARTURE PROCEDURE: **Rwy 15**, climbing left turn direct BTG VORTAC. **Rwy 33**, climbing right turn direct BTG VORTAC. Aircraft departing BTG R-160 CW R-329 climbing left turn on course. All others climb in BTG VORTAC holding pattern (NW, right turns, 149° inbound) to cross BTG VORTAC at or above MEA/MCA for direction of flight.

NOTE: **Rwy 15**, 158' MSL tree 470' from departure end of runway, 499' right of centerline. **Rwy 33**, cross departure end of runway 33 at or above 35' AGL/90' MSL. 130' MSL tree 613' from departure end of runway, 414' right of centerline; 142' MSL trees 1343' from departure end of runway, 348' right of centerline.

SCOBEE, MT

SCOBEE

TAKE-OFF MINIMUMS: **Rwy 12**, std. with a min. climb of 280' per NM to 3400.

SEATTLE, WA

BOEING FIELD/KING COUNTY INTL

TAKE-OFF MINIMUMS: **Rwy 13L**, 500-3 w/ min. climb of 232' per NM to 800, or 1000-2½ for climb in visual conditions. **Rwy 13R**, std. w/ a min. climb of 476' per NM to 900, or 500-3 w/ a min. climb of 386' per NM to 900, or 1000-2½ for climb in visual conditions. **Rwy 31L**, std. w/ a min. climb of 386' per NM to 800, or 300-1½ w/ min. climb of 235' per NM to 800, or 1000-2 ½ for climb in visual conditions. **Rwy 31R**, std. w/ a min. climb of 334' per NM to 900, or 400-1¼ w/ min. climb of 216' per NM to 900, or 1000-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 13L/R**, climbing right turn. **Rwys 31L/R**, climbing left turn. All aircraft climb direct to SEA VORTAC, continue climb in SEA VORTAC holding pattern (hold east, left turns, 290° inbound) to cross SEA VORTAC at or above 3000. For climb in visual conditions cross Boeing Field/King County Intl Airport at or above 900, then climb to 3000 via SEAR-344 to SEA VORTAC, continue climb in SEA VORTAC holding pattern (hold east, left turns, 290° inbound) to cross SEA VORTAC at or above 3000.

NOTES: **Rwy 13L**, multiple trees, towers, antennas and building beginning 402' from departure end of runway, 411' left of centerline, up to 127' AGL/479' MSL.

Rwy 13R, multiple trees and poles beginning 35' from departure end of runway, 154' left of centerline, up to 66' AGL/485' MSL. Multiple trees and poles beginning 501' from departure end of runway, 3' right of centerline, up to 77' AGL/195' MSL. **Rwy 31L**, multiple trees, fence, and building beginning 250' from departure end of runway, 253' left of centerline, up to 71' AGL/101' MSL. Multiple trees and floodlights beginning 1245' from departure end of runway, 447' right of centerline, up to 71' AGL/239' MSL. **Rwy 31R**, multiple trees, hangers, towers, poles and building beginning 12' from departure end of runway, 389' right of centerline, up to 103' AGL/350' MSL. Multiple obstruction lights beginning 214' from departure end of runway, 99' left of centerline, up to 71' AGL/101' MSL.

SEATTLE-TACOMA INTL (SEA)

AMDT 4 08325 (FAA)

DEPARTURE PROCEDURE: **Rwys 16L, 16C, 16R**, climb to 1000 via heading 163°, then climbing right turn direct SEA VORTAC, thence...

Rwys 34L, 34C, 34R, climb to 1000 via heading 343°, then climbing left turn direct SEA VORTAC, thence...
...climb in SEA VORTAC holding pattern (hold SE, left turns, 310° inbound) to MEA/MCA for route of flight.

NOTE: **Rwy 16L**, trees beginning 2908' from departure end of runway, 1064' right of centerline, up to 100' AGL/476' MSL. **Rwy 16C**, trees beginning 4477' from departure end of runway, 484' right of centerline, up to 100' AGL/507' MSL. **Rwy 16R**, trees, antenna on building and light pole beginning 488' from departure end of runway, 436' left of centerline, up to 100' AGL/507' MSL. Trees beginning 1137' from departure end of runway, 587' right of centerline, up to 100' AGL/468' MSL. **Rwy 34L**, fence 189' from departure end of runway, 401' right of centerline, up to 12' AGL/420' MSL. Trees beginning 4010' from departure end of runway, 857' left of centerline, up to 100' AGL/522' MSL.

SHELBY, MT

SHELBY

TAKE-OFF MINIMUMS: **Rwy 5**, 200-1¼ or std. w/ min. climb of 212' per NM to 3700, or alternatively, w/ std. takeoff minimums and a normal 200'/NM climb gradient, takeoff must occur no later than 1300' prior to departure end of runway.

NOTE: **Rwy 5**, fence post 320' from departure end of runway, 162' right of centerline, 12' AGL/3455' MSL, truck on road beginning 515' from departure end of runway, 632' right of centerline, 17' AGL/3498' MSL, tree 1 NM from departure end of runway, 1242' left of centerline, 75' AGL/3604' MSL. **Rwy 11**, truck on road 906' from departure end of runway, 691' left of centerline, 17' AGL/3456' MSL, tree 1697' from departure end of runway, 26' right of centerline, 75' AGL/3495' MSL, tree 1561' from departure end of runway, 322' left of centerline, 75' AGL/3514' MSL, light standard 852' from departure end of runway, 174' left of centerline, 22' AGL/3451' MSL.

SHELTON, WA

SANDERSON FIELD

TAKE-OFF MINIMUMS: **Rwy 5**, std. w/ a min. climb of 312' per NM to 4000, or 1500-2½ for a climb in visual conditions. **Rwy 23**, std. w/ a min. climb of 414' per NM to 4000, or 1500-2½ for a climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 5**, climbing right turn to intercept SEA R-230 to CARRO intersection. Or for climb in visual conditions: Cross Sanderson Field northeast bound at or above 1600, thence via SEA R-230 to cross CARRO intersection at or above 4000. **Rwy 23**, climbing left turn to intercept SEA R-230 to CARRO intersection. Or for climb in visual conditions: Cross Sanderson Field northeast bound at or above 1600, thence via SEA R-230 to cross CARRO intersection at or above 4000.

NOTE: **Rwy 5**, multiple trees beginning 550' from departure end of runway, 107' left of centerline, up to 94' AGL/366' MSL. Multiple trees beginning 130' from departure end of runway, 70' right of centerline, up to 80' AGL/352' MSL. **Rwy 23**, multiple trees beginning 52' from departure end of runway, 149' left of centerline, up to 72' AGL/330' MSL. Multiple trees beginning 886' from departure end of runway, 153' right of centerline, up to 155' AGL/486' MSL.

SHERIDAN, WY

SHERIDAN COUNTY

TAKE-OFF MINIMUMS: **Rwy 5**, 700-3 or std. w/ min. climb of 318' per NM to 5100, or... **Rwy 14**, 800-3 or std. w/ min. climb of 263' per NM to 5100, or... **Rwy 23**, 900-3 or std. w/ min. climb of 348' per NM to 5100, or...
...1400/3 for climb in visual conditions. Climb in visual conditions NA at night.

DEPARTURE PROCEDURE: **Rwy 5**, climbing left turn via SHR R-106 to SHR VORTAC, or climb in visual conditions to cross Sheridan County Airport northwestbound at or above 5300, then via SHR R-126 to SHR VORTAC, thence... **Rwy 14**, climbing left turn via heading 320° and SHR R-106 to SHR VORTAC, or climb in visual conditions to cross Sheridan County Airport northwestbound at or above 5300, then via SHR R-126 to SHR VORTAC, thence... **Rwy 23**, climbing right turn via SHR R-153 to SHR VORTAC, or climb in visual conditions to cross Sheridan County Airport northwestbound at or above 5300, then via SHR R-126 to SHR VORTAC, thence... **Rwy 32**, climb via heading 320° and SHR R-106 to SHR VORTAC, thence...
...climb in holding pattern (hold northwest, left turn, 133° inbound) to cross SHR VORTAC at or above airway MEA for route of flight.

NOTE: **Rwy 5**, multiple trees beginning 101' from departure end of runway, 188' left of centerline, up to 80' AGL/3991' MSL. **Rwy 23**, fence 1201' from departure end of runway, 10' left of centerline, 20' AGL/4060' MSL. Building 1949' from departure end of runway, 415' left of centerline, 17' AGL/4077' MSL. Tree 3337' from departure end of runway, 391' right of centerline, 43' AGL/4143' MSL. **Rwy 32**, antenna 53' from departure end of runway, 398' right of centerline, 20' AGL/4020' MSL.

SIDNEY, MT

SIDNEY-RICHLAND MUNI

TAKE-OFF MINIMUMS: **Rwy 28**, 400-2 or std. with a min. climb of 260' per NM to 2300.

SNOHOMISH, WA

HARVEY FIELD (S43)

ORIG 09127 (FAA)

TAKE-OFF MINIMUMS: **Rwys 15R, 33L**, NA-obstacles. **Rwy 15L**, std. w/ min. climb of 353' per NM to 1100, or 1200-2½ for climb in visual conditions. **Rwy 33R**, std. w/ min. climb of 475' per NM to 800, or 1200-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 15L**, climbing right turn on 344° course to WATON LOM, or for climb in visual conditions, cross Harvey Field at or above 1100 then proceed on 329° course to WATON LOM, thence... **Rwy 33R**, climb on 329° course to WATON LOM, or for climb in visual conditions, cross Harvey Field at or above 1100 then proceed on 329° course to WATON LOM, thence...

... aircraft departing WATON LOM on bearings 150° CW 340° from WATON LOM climb on course. Aircraft departing WATON LOM on bearings 340° CW 150° from WATON LOM, climb in holding pattern (South, left turns, 339° inbound) to cross WATON LOM at or above 4500 before proceeding on course.

NOTE: **Rwy 15L**, tree 81' from DER, 177' right of centerline, 40' AGL/106' MSL. Trees 685' from DER, left and right of centerline, up to 48' AGL/70' MSL. **Rwy 33R**, powerline 139' from DER, 226' left of centerline, 40' AGL/56' MSL. Tree 298' from DER, 205' right of centerline, 104' AGL/121' MSL. Tower 5708' from DER, 1956' right of centerline, 206' AGL/300' MSL.

SPOKANE, WA

FELTS FIELD (SFF)

AMDT 5 10098 (FAA)

TAKE-OFF MINIMUMS: **Rwy 3L**, std. w/min. climb of 450' per NM to 3600, or 2300-3 for climb in visual conditions. **Rwy 3R**, std. w/min. climb of 410' per NM to 3700, or 2300-3 for climb in visual conditions. **Rwy 21L**, std. w/min. climb of 375' per NM to 3200, or 2300-3 for climb in visual conditions. **Rwy 21R**, std. w/min. climb of 375' per NM to 3200, or 2300-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 3L, 3R**, climb heading 035° to 3600, then climbing right turn heading 210° and GEG R-050 to GEG VORTAC, or for climb in visual conditions: cross Felts Field Airport at or above 4100, then via heading 165° and GEG R-050 to GEG VORTAC. Cross GEG VORTAC at or above MCA/MEA for route of flight. **Rwys 21L, 21R**, climb heading 215° to 3200, then climbing left turn heading 190° and GEG R-050 to GEG VORTAC, or for climb in visual conditions: cross Felts Field Airport at or above 4100, then via heading 165° and GEG R-050 to GEG VORTAC. Cross GEG VORTAC at or above the MCA/MEA for route of flight.

NOTE: **Rwy 3L**, trees beginning 1853' from DER, 772' right of centerline, up to 100' AGL/2037' MSL. Trees beginning 3538' from DER, 529' left of centerline, up to 100' AGL/2339' MSL. Antenna, trees and transmission poles beginning 1.5 NM from DER, 16' left of centerline, up to 100' AGL/2579' MSL. Trees beginning 2.3 NM from DER, 723' right of centerline, up to 100' AGL/2499' MSL. **Rwy 3R**, hangar, NDB, and trees beginning 92' from DER, 269' right of centerline, up to 100' AGL/2040' MSL. Trees beginning 4685' from DER, 1033' left of centerline, up to 100' AGL/2339' MSL. Antenna, trees and transmission poles beginning 1.6 NM from DER, 525' left of centerline, up to 100' AGL/2559' MSL. Trees and transmission poles beginning 2.6 NM from DER, 214' right of centerline, up to 150' AGL/2570' MSL. **Rwy 21L**, elevator, pole on building and trees beginning 315' from DER, 302' left of centerline, up to 140' AGL/2080' MSL. **Rwy 21R**, poles and trees beginning 188' from DER, 13' right of centerline, up to 100' AGL/1982' MSL. Elevator, pole, hangar, and building beginning 203' from DER, 1' left of centerline, up to 140' AGL/2080' MSL. Terrain and trees beginning 3.1 NM from DER, 4904' left of centerline, up to 100' AGL/2559' MSL.

SPOKANE INTL

DEPARTURE PROCEDURE: **All aircraft** climb direct GEG VORTAC. Continue climb via R-208 within 10 miles to cross GEG VORTAC at or above: northeastbound V120-448, 5200; eastbound V2, 5200, southeast thru westbound climb on course.

STEVENSVILLE, MT

STEVENSVILLE

TAKE-OFF MINIMUMS: **Rwy 12**, do not exceed 210 knots until established on MSOR-163. **Rwy 30**, do not exceed 210 knots until established on MSOR-160.

DEPARTURE PROCEDURE: **Rwy 12**, climbing right turn via heading 335 and MSOR-163 to MSO VOR/DME climb in MSO VOR/DME holding pattern (southeast, right turn, 340° inbound) to 13000' before proceeding on course. **Rwy 30**, climbing right turn via heading 025° and MSOR-160 to MSO VOR/DME Climb in MSO VOR/DME holding pattern (southeast, right turn, 340° inbound) to 13000' before proceeding on course.

SUNRIVER, OR

SUNRIVER

TAKE-OFF MINIMUMS: **Rwy 18**, 300-1 or std. with a min. climb of 360' per NM to 4400. **Rwy 36**, 600-2 or std. with a min. climb of 240' per NM to 4900.

DEPARTURE PROCEDURE: **Rwy 18**, climb runway heading to 7000 then climbing left turn direct DSD VORTAC. **Rwy 36**, climb direct to DSD VORTAC. Then **all aircraft** climb on course.

TACOMA, WA

TACOMA NARROWS

TAKE-OFF MINIMUMS: **Rwy 35**, 400-1 or std. with a min. climb of 210' per NM to 400'.

DEPARTURE PROCEDURE: **Rwy 17**, turn right, climb via heading 230° to intercept OLM R-009 then direct OLM VORTAC. **Rwy 35**, turn left, climb via heading 270° to intercept SEA R-230 then direct CARRO INT. Continue climb in holding (SW, right turns, 047° inbound) to MEA or assigned altitude for route of flight.

THE DALLES, OR

COLUMBIA GORGE RGNL/THE DALLES MUNI

TAKE-OFF MINIMUMS: **Rwy 2**, CAT A,B 1100-2 or std. with a min. climb of 350' per NM to 1500. CAT C,D 2600-3 or std. with a min. climb of 475' per NM to 3100. **Rwy 7**, 900-3 or std. with a min. climb of 330' per NM to 1200. **Rwy 12**, 1400-3 or std. with a min. climb of 500' per NM to 2000. **Rwy 20**, 1800-3 or std. with a min. climb of 470' per NM to 2200. **Rwy 25**, NA. **Rwy 30**, 2900-3 or std. with a min. climb of 500' per NM to 2700.

DEPARTURE PROCEDURE: **Rwys 2,7**, climbing right turn heading 120°. **Rwy 12**, climb via runway heading. **Rwys 20, 30**, climbing left turn heading 120°. **All aircraft** intercept and climb southbound via LTJ R-165 to 3500. Then climbing left turn direct LTJ VORTAC. Continue climb in LTJ holding pattern (E, right turns, 260° inbound) to cross LTJ VORTAC at or above MCA or MEA for route of flight.

TILLAMOOK, OR

TILLAMOOK

TAKE-OFF MINIMUMS: **Rwys 1, 13, 19**, NA. **Rwy 31**, 2000-3 or std. with a min. climb of 350' per NM to 4500. DEPARTURE PROCEDURE: **Rwys 1, 13, 19**, NA. **Rwy 31**, use FETUJ RNAV DEPARTURE.

TORRINGTON, WY

TORRINGTON MUNI (TOR)

ORIG 10042 (FAA)

NOTE: **Rwy 2**, terrain 30' from DER, 277' left of centerline, 4197' MSL. **Rwy 10**, multiple trees and fence beginning 71' from DER, 143' right of centerline, up to 14' AGL/4214' MSL. Terrain 14' from DER, 502' left of centerline, 4199' MSL. **Rwy 28**, terrain 133' from DER, 386' right of centerline, 4213' MSL.

TWIN FALLS, ID

JOSLIN FIELD-MAGIC VALLEY RGNL

TAKE-OFF MINIMUMS: **Rwy 12**, NA.

DEPARTURE PROCEDURE: Aircraft departing on TWFR-240 CW R-080 climb on course. All others climb runway heading 6000 then climbing turn direct TWV VORTAC. Climb in holding pattern (NW, right turns, 113° inbound) to MCA or MEA as appropriate for direction of flight.

VANCOUVER, WA

PEARSON FIELD (VUO)

AMDT 2 07354 (FAA)

TAKE-OFF MINIMUMS: **Rwy 8**, std. w/ min. climb of 358' per NM to 600, or 500-3 w/ min. climb of 201' per NM to 600, or 900-2½ for climb in visual conditions.

Rwy 26, 600-3 or 900-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 8**, climb heading 079° to 500 then climbing left turn direct BTG VORTAC, thence... or for climb in visual conditions: cross Pearson Field at or above 800 MSL then proceed on BTG VORTAC R-179 to BTG VORTAC, thence...
Rwy 26, climb heading 259° to 700 then climbing right turn direct BTG VORTAC, thence... or for climb in visual conditions: cross Pearson Field at or above 800 MSL then proceed on BTG VORTAC R-179 to BTG VORTAC, thence...

...continue climb in BTG VORTAC holding pattern (hold northwest, right turn, 149° inbound) to cross BTG VORTAC at or above MEA/MCA for route of flight.

NOTE: **Rwy 8**, tree 1.4 NM from departure end of runway, 1283' left of centerline, 100' AGL/395' MSL. Tree 1.7 NM from departure end of runway, 701' left of centerline, 100' AGL/401' MSL. Tree 2 NM from departure end of runway, 849' left of centerline, 100' AGL/406' MSL. Tree 2.4 NM from departure end of runway, 648' left of centerline, 100' AGL/399' MSL. **Rwy 26**, bridge 2704' from departure end of runway, 587' left of centerline, 243' AGL/245' MSL. Crane 1.5 NM from departure end of runway, 2563' right of centerline, 237' AGL/267' MSL. Transmission line tower 2.5 NM from departure end of runway, 2036' right of centerline, 516' AGL/534' MSL.

WALLA WALLA, WA

WALLA WALLA RGNL

DEPARTURE PROCEDURE: **Rwys 2, 7, 20, 25, 34**, turn left. **Rwy 16**, turn right. All aircraft climb to 2500 via ALW VOR/DME R-195, then climbing right turn direct ALW VOR/DME to cross ALW VOR/DME at or above MEA or MCA for route of flight.

NOTE: **Rwy 16**, antenna 365' from departure end of runway, 97' right of centerline, 1155' MSL. Terrain 1' from departure end of runway 140' left of centerline, 1145' MSL. **Rwy 20**, light 666' from departure end of runway, 640' left of centerline, 1170' MSL. **Rwy 34**, terrain 213' from departure end of runway, 230' right of centerline, 1130' MSL.

WEISER, ID

WEISER MUNI (S87)

ORIG 08269 (FAA)

TAKE-OFF MINIMUMS: **Rwy 12**, std. w/ min. climb of 310' per NM to 3900 or 2400-3 for climb in visual conditions. **Rwy 30**, std. w/ min. climb of 360' per NM to 4000 or 2400-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 12**, climb heading 121° to 3900 before proceeding on course. **Rwy 30**, climb heading 301° to 4000 before proceeding on course ... for climb in visual conditions: cross Weiser Muni airport at or above 4400 before proceeding on course.

NOTE: **Rwy 12**, tree 248' from departure end of runway, 443' right of centerline, 100' AGL/2184' MSL. **Rwy 30**, tree 1907' from departure end of runway, 769' right of centerline, 100' AGL/2174' MSL.

WENATCHEE, WA

PANGBORN MEMORIAL

TAKE-OFF MINIMUMS: **Rwy 7**, NA. **Rwy 12**, 1500-2 or std. with a min. climb of 510' per NM to 2900.

Rwys 25, 30, CAT A, B 1600-2 or std. with a min. climb of 360' per NM to 3100. CAT C, D 5500-3 or std. with a min. climb of 570' per NM to 7200.

DEPARTURE PROCEDURE: **Rwy 12**, climb runway heading. **Rwys 25, 30**, climbing left turn. All aircraft climb via EAT R-113 to 4000 then climbing left turn direct EAT VOR/DME. Aircraft departing EAT R-010 CW R-140 climb on course. All others continue climb in EAT VOR/DME holding pattern (E, right turns, 253° inbound) to cross EAT VOR/DME at or above: R-141 CW R-2007400; R-201 CW R-009, 8200.

WEST YELLOWSTONE, MT

YELLOWSTONE

TAKE-OFF MINIMUMS: **Rwy 19**, 2200-2 or std. with a min. climb of 245' per NM to 8900. FAR 135 AUTH:

Rwy 1, ½ mile.

DEPARTURE PROCEDURE: **Rwy 1**, turn right.

All aircraft climb direct TARGY LOM. Aircraft departing TARGY LOM on bearing 190° CW 220° climb on course. All others climb south on bearing 190° within 10 NM of TARGY LOM turn left and continue climbing direct TARGY LOM to cross TARGY LOM at or above: bearing 360° CW 190° 9300, bearing 220° CW 360° 10500

WHEATLAND, WY

PHIFER AIRFIELD

DEPARTURE PROCEDURE: **Rwy 8**, climbing left turn to 9000 via heading 030° to intercept IIP VOR/DME R-140° to JZZY Int, thence. . . **Rwy 26**, climbing right turn to 9000 via heading 360° and GYZ NDB course 051° to JZZY INT, thence. . .

. . . continue climb-in-hold (hold northwest, right turn, 140° inbound) to 9000 before proceeding on course.

NOTE: **Rwy 8**, multiple trees 512' from departure end of runway, 584' left of centerline, 100' AGL/4859' MSL.

Rwy 26, multiple trees, buildings, poles/lights, siren, roads w/ vehicles beginning 2' from departure end of runway, on centerline, to 488' left of centerline, 100' AGL/4899' MSL. Multiple trees, buildings, poles/lights, roads w/ vehicles beginning 2' from departure end of runway, on centerline to 499' right of centerline, 100' AGL/4859' MSL.

WHIDBEY ISLAND NAS (AULT FIELD) (NUW)

OAK HARBOR, WA. 07186

Diverse departures not authorized.

MILITARY DEPARTURE PROCEDURE: **Rwy 7**:

Minimum climb of 430'/NM until 600. Climbing left turn to 2000, intercept NUW R-067, expect radar vectors to join assigned route. **Rwy 14**: Climbing left turn to 2000, intercept NUW R-128, expect radar vectors to join assigned route. **Rwy 25**: Climb to 2000 via heading 249°, expect radar vectors to join assigned route. **Rwy 32**: Climb to 2000 via heading 317°, expect radar vectors to join assigned route. **ALL RWYS**: If vectors are not received by 10 DME of NUW TACAN, climb to 3000, intercept the NUW 11 DME ARC to join assigned route. CIVIL DEPARTURE PROCEDURE: **Rwy 7**: Minimum climb of 270'/NM until 700. Climbing left turn to 2000 via heading 067°, expect radar vectors to join assigned route. **Rwy 14**: Climbing left turn to 2000, via heading 128°, expect radar vectors to join assigned route. **Rwy 25**: Use published DP or climb to 2000 via heading 249°, expect radar vectors to join assigned route. **Rwy 32**: Climb to 2000 via heading 317°, expect radar vectors to join assigned route. **ALL RWYS**: If vectors are not received by 10 DME of NUW TACAN, climb to 3000, proceed direct CVV VOR/DME to join assigned route. TAKEOFF OBSTACLES: **Rwy 7**: Terrain, 7813' from DER, 2469' left of centerline, 276' MSL. Trees, 4274' from DER, 5472' left of centerline, 472' MSL. Trees, 5239' from DER, 6257' left of centerline, 495' MSL. Trees, 8561' from DER, 3685' left of centerline, 426' MSL. Trees, 12,561' from DER, 4814' right of centerline, 462' MSL. Terrain, 11,843' from DER, 7129' left of centerline, 502' MSL. Trees, 15,361' from DER, 4015' right of centerline, 521' MSL.

WORLAND, WY

WORLAND MUNI

TAKE-OFF MINIMUMS: **Rwys 4, 10, 22, 28**, NA.

Rwy 16, 300-2 or std. with a min. climb of 230' per NM to 4600.

DEPARTURE PROCEDURE: **All aircraft** climb to 5000, then direct RLY VOR/DME. Aircraft departing RLY R-061 CWR-349 climb on course. All others continue climb in RLY VOR/DME holding pattern (N, right turns, 159° inbound) to cross RLY VOR/DME at or above 7000.

YAKIMA, WA

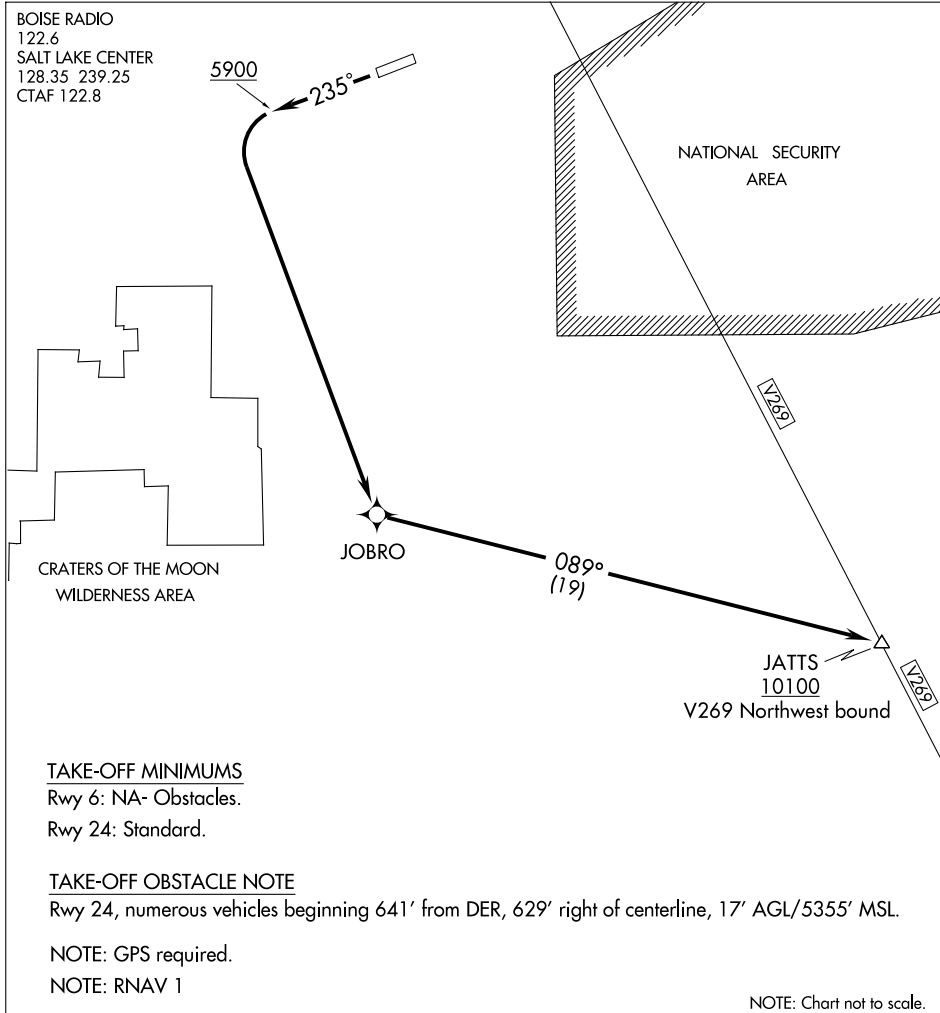
YAKIMA AIR TERMINAL/MCALLISTER FIELD

TAKE-OFF MINIMUMS: **Rwy 4**, NA. **Rwy 9**, 800-4 or std. with a min. climb of 300' per NM to 5000. **Rwys 22, 27**, 2500-3 or std. with a min. climb of 300' per NM to 5200.

DEPARTURE PROCEDURE: **Rwy 4**, NA. **Rwys 9, 22, 27**, Use ZILLA DEPARTURE PROCEDURE.

(JATTS1.JATTS) 09239 SL-9198 (FAA)
JATTS ONE DEPARTURE (RNAV) (OBSTACLE)

ARCO-BUTTE COUNTY (AOC)
ARCO, IDAHO



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 24: Climb heading 235° to 5900 then climbing left turn direct JOBRO, then via 089° track to JATTS before proceeding on course.

NW-1, 08 APR 2010 to 06 MAY 2010

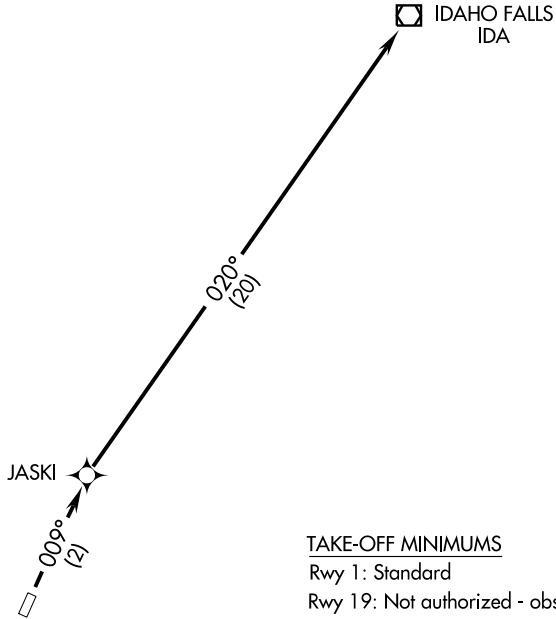
(IDA1.IDA) 09239

SL-9351 (FAA)

BLACKFOOT/MCCARLEY FIELD (T02)
BLACKFOOT, IDAHO

IDAHO FALLS ONE DEPARTURE (RNAV)

SALT LAKE CITY CENTER
128.35 239.25
UNICOM 122.8 (CTAF)



TAKE-OFF MINIMUMS

Rwy 1: Standard

Rwy 19: Not authorized - obstacles.

NOTE: 1. GPS Required.
2. RNAV 1

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 1: Climb to 7000 (or higher assigned altitude) via 009° course to JASKI WP and right turn via 020° course to IDA VOR/DME, then via (assigned route).

TAKE-OFF RUNWAY 19: Not authorized.

(PIH1 .PIH) 09239

SL-9351 (FAA)

BLACKFOOT/MCCARLEY FIELD (T02)

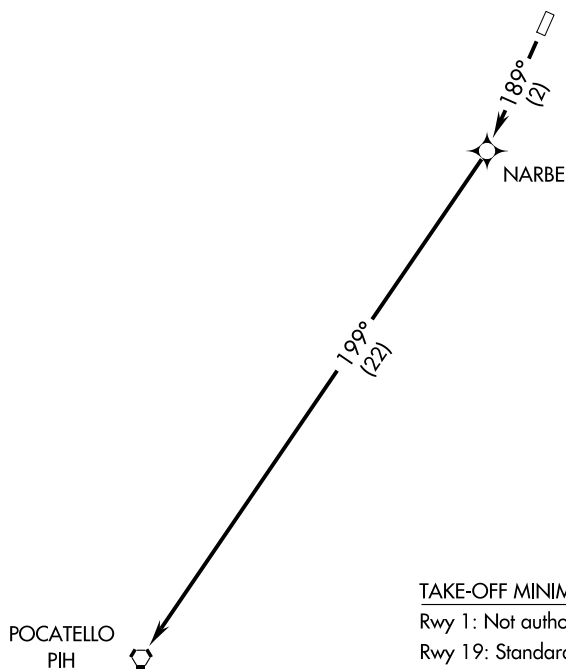
BLACKFOOT, IDAHO

POCATELLO ONE DEPARTURE (RNAV)

SALT LAKE CITY CENTER

128.35 239.25

UNICOM 122.8 (CTAF)



TAKE-OFF MINIMUMS

Rwy 1: Not authorized - obstacles

Rwy 19: Standard

NOTE: 1. GPS Required.
2. RNAV 1

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 1: Not authorized.

TAKE-OFF RUNWAY 19: Climb to 7000 (or higher assigned altitude) via 189° course to NARBE WP and right turn via 199° course to PIH VORTAC, then via (assigned route).

▼

▲ NA

Use Pocatello Rgnl altimeter setting, when not received use Idaho Falls Rgnl altimeter setting.
DME/DME RNP-0.3 NA.

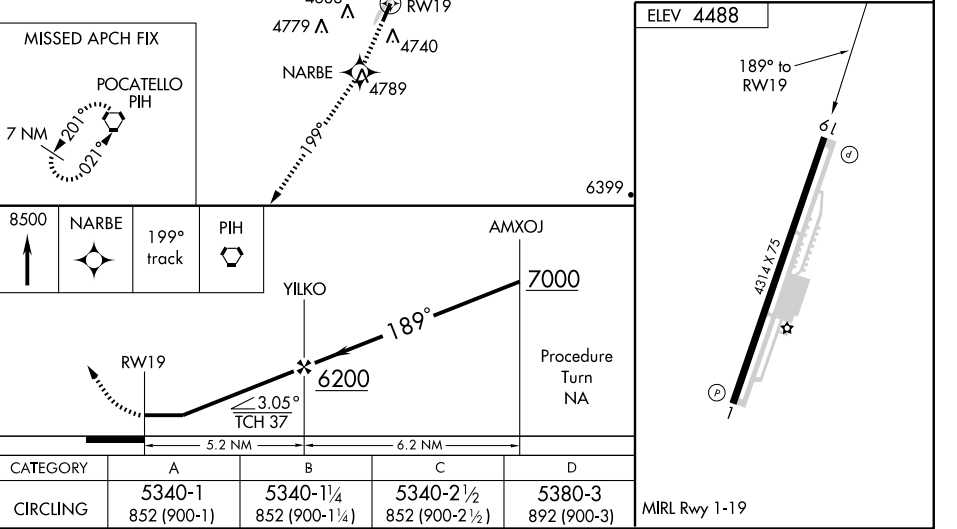
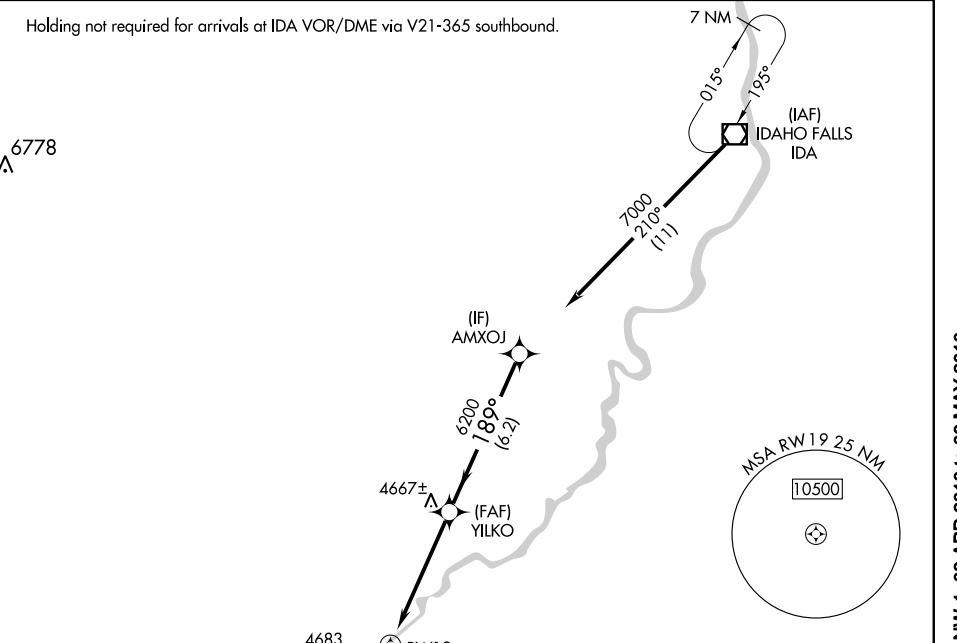
MISSED APPROACH: Climb to 8500 direct NARBE and via 199° track to PIH VORTAC and hold.

SALT LAKE CITY CENTER

128.35 239.25

UNICOM

122.8 (CTAF)



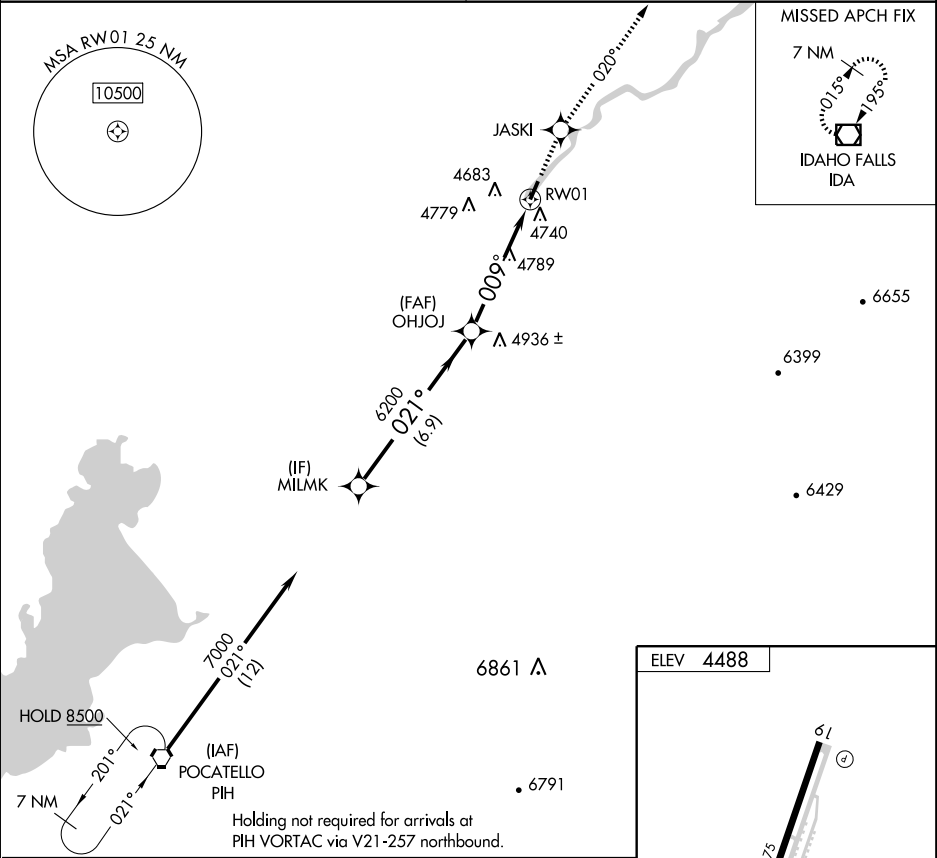
APP CRS	Rwy Idg	N/A
009°	TDZE	N/A
	Apt Elev	4488

Use Pocatello Rgnl altimeter setting, when not received use Idaho Falls Rgnl altimeter setting.
DME/DME RNP-0.3 NA.

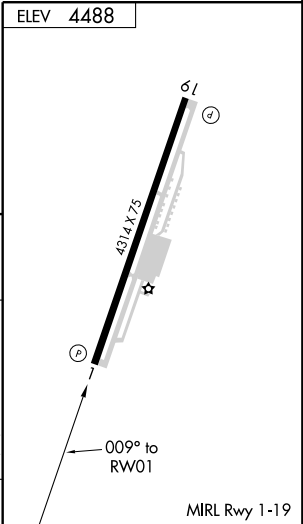
MISSED APPROACH: Climb to 7000 direct JASKI and via 020° track to IDA VOR/DME and hold.

SALT LAKE CITY CENTER
128.35 239.25

UNICOM
122.8 (CTAF)



	MILMK	OHJOJ	RW01	
	7000	6200		
	021°	009°		
	6.9 NM	5.2 NM		
CATEGORY	A	B	C	D
CIRCLING	5380-1¼ 892 (900-1¼)	5380-2¾ 892 (900-2¾)	5380-3 892 (900-3)	



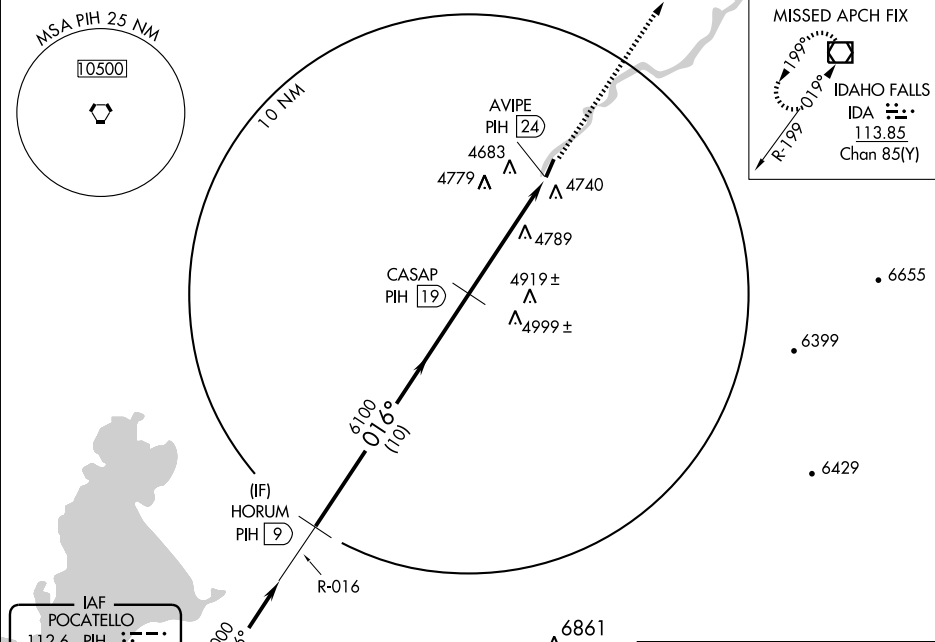
VORTAC PIH 112.6 Chan 73	APP CRS 016°	Rwy Idg TDZE Apt Elev	N/A N/A 4488
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▼
▲NA Use Pocatello Rgnl altimeter setting, when not received use Idaho Falls Rgnl altimeter setting.

MISSED APPROACH: Climb to 7000 direct IDA VOR/DME and hold.

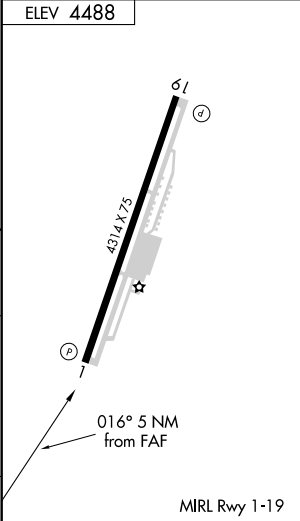
SALT LAKE CITY CENTER
128.35 239.25

UNICOM
122.8 (CTAF)



IAF
POCATELLO
112.6 PIH
Chan 73

Holding not required for arrivals at PIH VORTAC via V21-257 northbound.



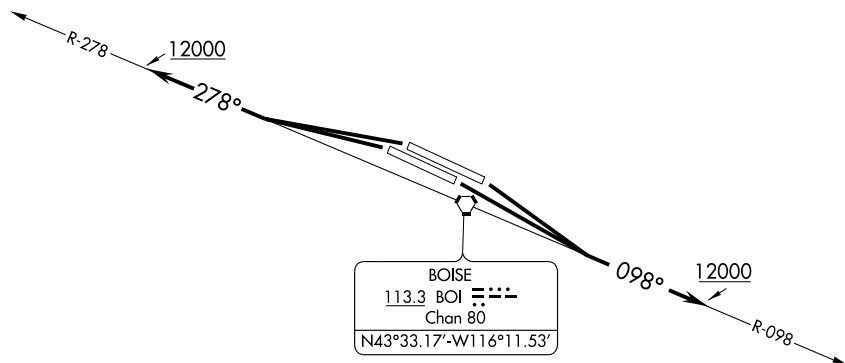
Procedure Turn NA	HORUM PIH 9 7000		CASAP PIH 19 6100		AVIPE PIH 24 7000		IDA 113.85	
	016°		2.97° TCH 40		016°			
CATEGORY	A		B		C		D	
CIRCLING	5460-1¼ 972 (1000-1¼)		5460-1½ 972 (1000-1½)		5460-3		972 (1000-3)	

BOISE, IDAHO



BOISE ONE DEPARTURE

ATIS
123.9 290.4
CLNC DEL
125.9 323.2
GND CON
121.7 348.6
BOISE TOWER
118.1 257.8
BOISE DEP CON
126.9 351.85 (279°-097°)
119.6 269.4 (098°-278°)



NOTE: Chart not to scale.

NOTE: RADAR Required

TAKE-OFF MINIMUMS

Rwy 28L/R: Standard.

Rwy 10L/R: Standard with minimum climb of 240' per NM to 9100. ATC climb of 420' per NM to 7000'.

TAKE-OFF OBSTACLE NOTES

Rwy 10L: DME antenna 5' from DER, 415' right of centerline, 21' AGL/2881' MSL.

Light on building 271' from DER, 567' left of centerline, 29' AGL/2889' MSL.

Equipment on road 462' from DER, 444' left of centerline, 17' AGL/2887' MSL.

Rwy 28R: Anemometer 452' from DER, 306' left of centerline, 11' AGL/2842' MSL.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 10L/R: Climb to 12000' via BOI VORTAC R-098, Thence . . .

TAKE-OFF RUNWAY 28L/R: Climb to 12000' via BOI VORTAC R-278, Thence . . .

. . . Expect RADAR vectors to assigned route, expect filed altitude 10 minutes after departure.

LOST COMMUNICATIONS: If not in contact with Boise Departure Control at 10000' or assigned altitude, if lower, continue climb to assigned altitude and thence via assigned route.

BOISE, IDAHO

LOC I-BOI <u>111.1</u>	APCH CRS 100°	Rwy Idg 9763 TDZE 2836 Arpt Elev 2871
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JAL-57 [USAF]

BOISE AIR TERMINAL (GOWEN FLD) (KBOI)

T * When ALS inop, increase RVR to 40 and vis to $\frac{3}{4}$ mile.
 ** When ALS inop, increase CAT CD RVR to 50 and vis to 1 mile, CAT E RVR to 60 and vis to $1\frac{1}{4}$ miles.

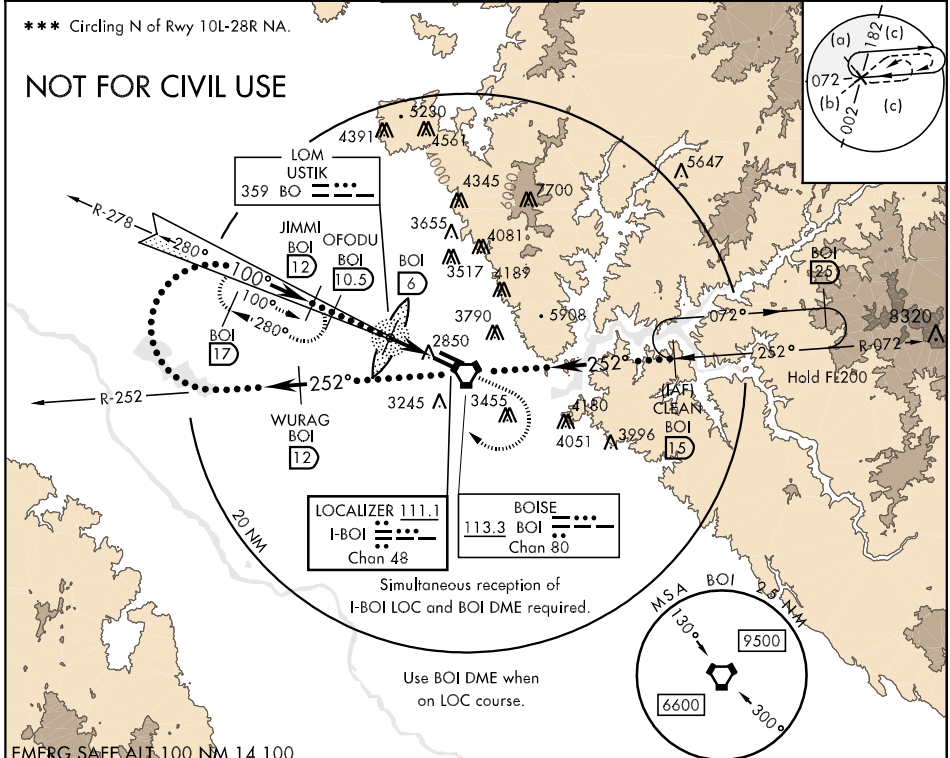


MISSED APPROACH: Climb to 3700 then climbing right turn to 5000 via heading 320° to intercept BOI VORTAC R-278 then direct JIMMI INT and hold.

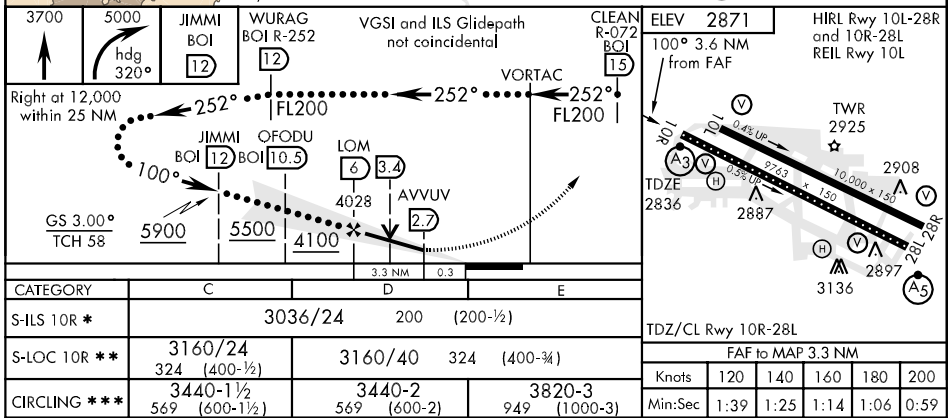
ATIS	BOISE APP CON	BOISE TOWER	GND CON	CLNC DEL	ASOS
123.9 290.4	119.6 269.4	118.1 257.8	121.7 348.6	125.9 323.2	

*** Circling N of Rwy 10L-28R NA.

NOT FOR CIVIL USE



EMERG SAFE ALT 100 NM 14,100



BOISE, IDAHO

43°34'N-116°13'W

BOISE AIR TERMINAL (GOWEN FLD) (KBOI)

Amdt 3 10070

LU 113 LOG/D145 D144 105

VORTAC BOI
113.3
Chan 80

APCH CRS
098°

Rwy Idg
TDZE
Arprt Elev
9763
2836
2871

JAL-57 [USAF]

BOISE AIR TERMINAL (GOWEN FLD) (KBOI)

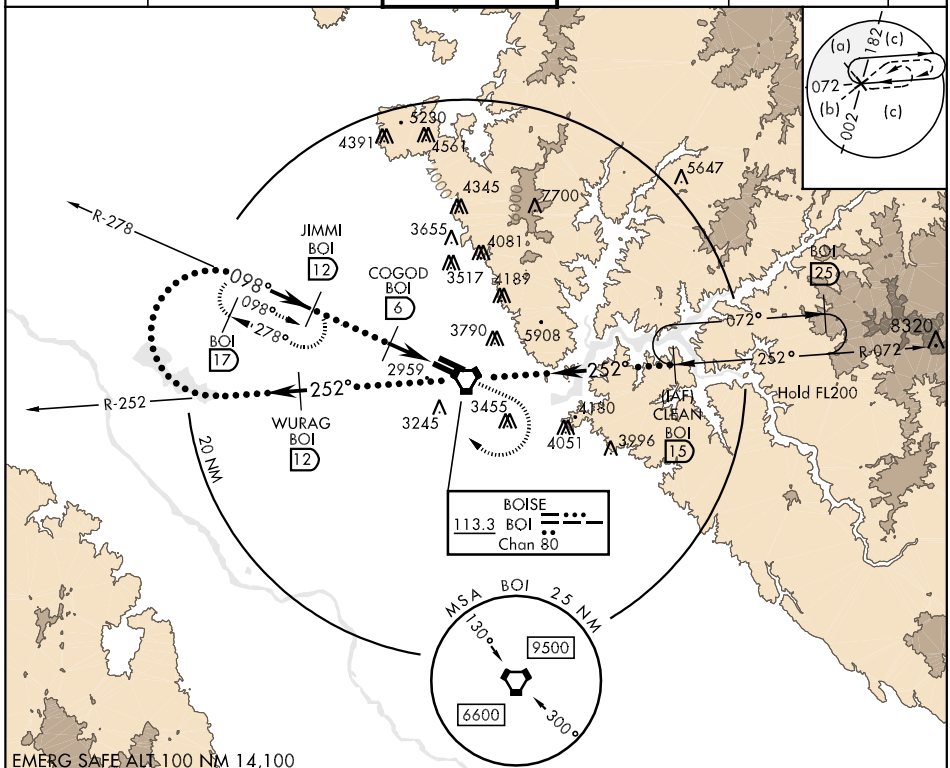
▼ * When ALS inop, increase CAT DE RVR to 60 and vis to 1¼ miles.

** Circling N of Rwy 10L-28R NA.

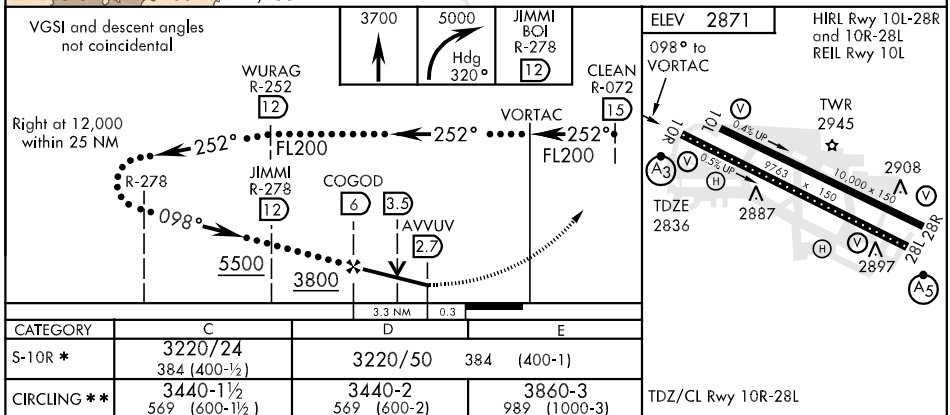


MISSED APPROACH: Climb to 3700 then climbing right turn to 5000 via heading 320° to intercept BOI VORTAC R-278 then direct JIMMI/12 DME and hold

ATIS 123.9 290.4	BOISE APP CON 119.6 269.4	BOISE TOWER 118.1 257.8	GND CON 121.7 348.6	CLNC DEL 125.9 323.2	ASOS
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EMERG SAFE ALT 100 NM 14,100



BOISE, IDAHO

VORTAC BOI 113.3 Chan 80	APCH CRS 278°	Rwy Idg TDZE Arpt Elev 2871	28L 9763 28L 2858	28R 10,000 28R 2871
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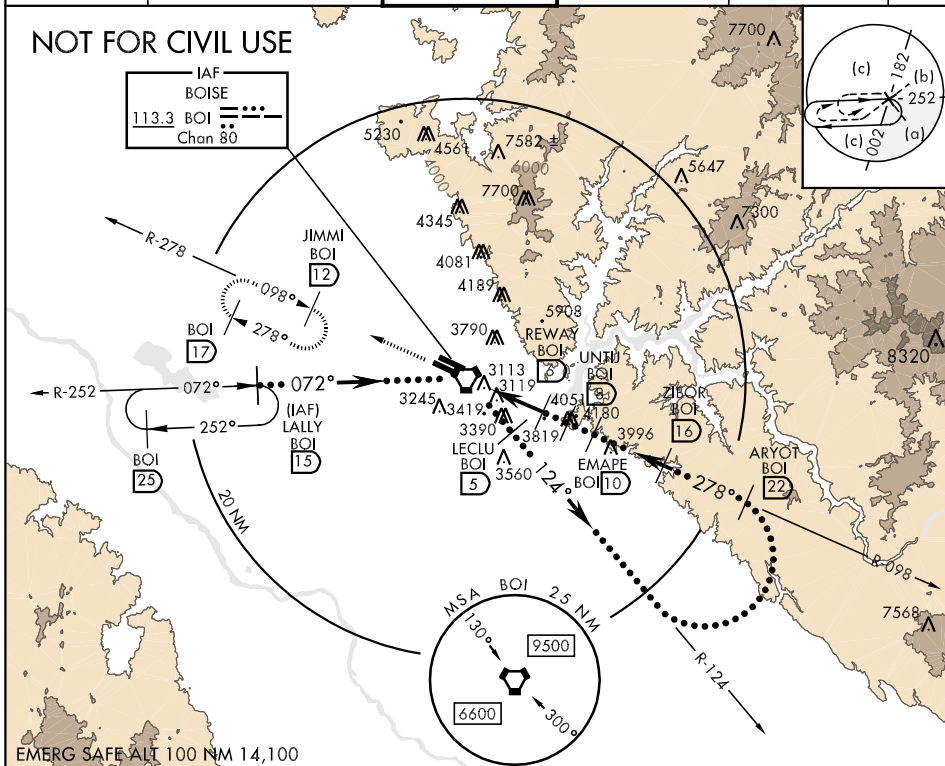
HI-VOR/DME or TACAN Rwy 28L
JAL-57 [USAF]
BOISE AIR TERMINAL (GOWEN FLD) (KBOI)

▼ * When ALS inop, increase vis to 1½ miles.
** Circling N of Rwy 10L-28R NA.

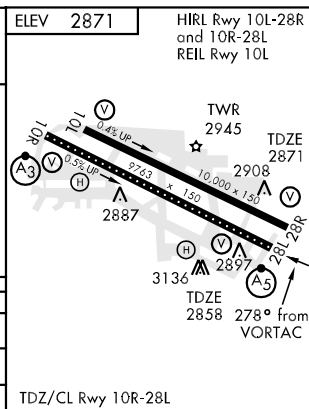
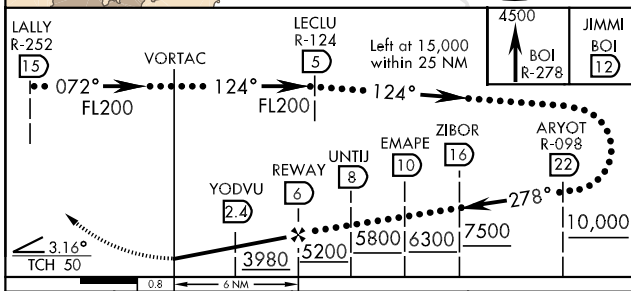


MISSED APPROACH: Climb to 4500 via BOI VORTAC
R-278 to JIMMI and hold.

ATIS 123.9 290.4	BOISE APP CON 119.6 269.4	BOISE TOWER 118.1 257.8	GND CON 121.7 348.6	CLNC DEL 125.9 323.2	ASOS
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EMERG SAFE ALT 100 NM 14,100



CATEGORY	C	D	E
S-28L *	3380/50 522 (600-1)	3380/60 522 (600-1¼)	3380/60 522 (600-1¼)
SIDESTEP RWY 28R	3380-1¾ 509 (600-1¾)	3380-2¼ 600 (600-2¼)	3380-2¼ 600 (600-2¼)
CIRCLING **	3440-1½ 569 (600-1½)	3440-2 569 (600-2)	3820-3 989 (1000-3)

TDZ/CL Rwy 10R-28L

BOISE, IDAHO

Amdt 3, 10070

43°34'N-116°13'W


BOISE AIR TERMINAL (GOWEN FLD) (KBOI)

NW-1, 08 APR 2010 to 06 MAY 2010

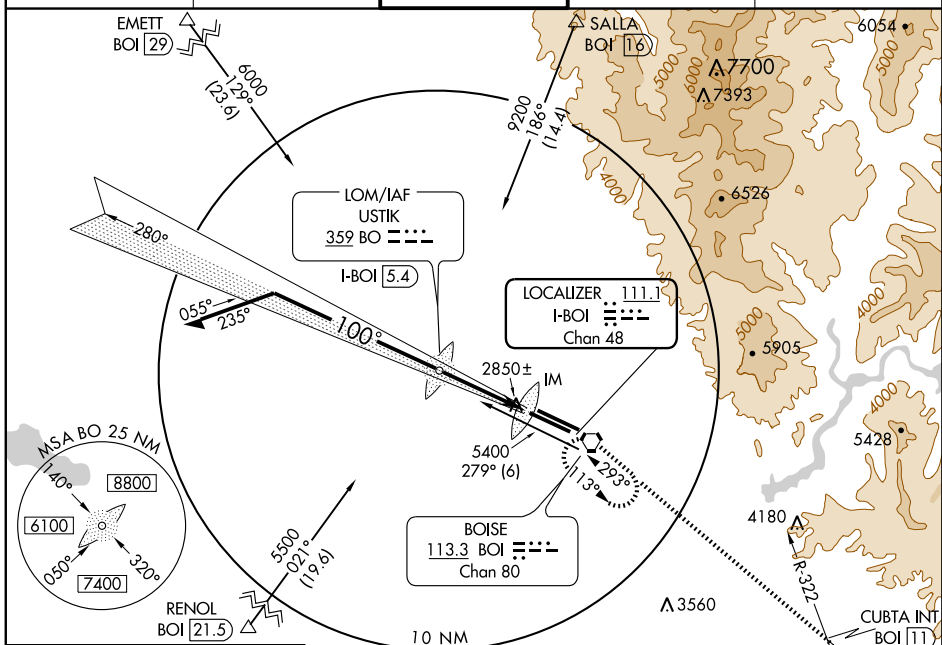
LOC/DME I-BOI 111.1 Chan 48	APP CRS 100°	Rwy Idg 10R TDZE Apt Elev	9763 2836 2871	Rwy Idg 10L TDZE Apt Elev	10000 2844 2871
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ILS or LOC RWY 10R

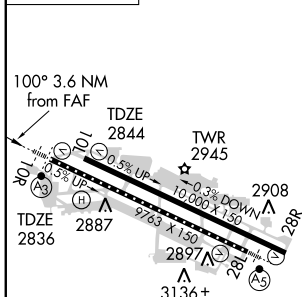
BOISE AIR TERMINAL (GOWEN FIELD) (BOI)

<p>⚠ Circling NA north of Rwy. 10L-28R. Visibility reduction by helicopters NA for sidestep.</p>	SSALR 	MISSED APPROACH: Climb to 6000 via BOI VORTAC R-113 to CUBTA INT/BOI 11 DME, and continue climbing right turn to 6000 direct BOI VORTAC and hold.
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ATIS 123.9 290.4	BOISE APP CON 119.6 269.4	BOISE TOWER 118.1 257.8	GND CON 121.7 348.6	CLNC DEL 125.9 323.2
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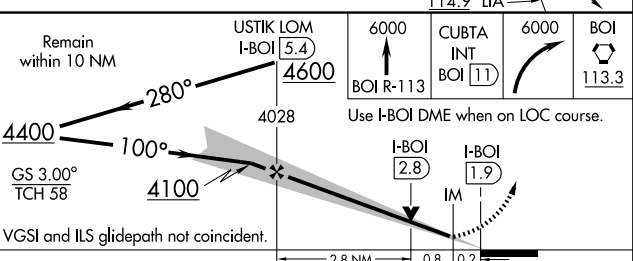
ELEV 2871



REIL Rwy 10L
TDZ/CL Rwys 10R and 28L
HIRL Rwys 10L-28R and 10R-28L

FAF to MAP 3.6 NM					
Knots	60	90	120	150	180
Min:Sec	3:36	2:24	1:48	1:26	1:12

ADF or DME REQUIRED



CATEGORY	A	B	C	D
S-ILS 10R	3036/18 200 (200-½)			
S-LOC 10R	3200/24 364 (400-½)			3200/40 364 (400-¾)
SIDESTEP RWY 10L	3200-1	356 (400-1)	3200-1½ 356 (400-1½)	3200-2 356 (400-2)
CIRCLING	3440-1 569 (600-1)	3440-1 569 (600-1)	3440-1½ 569 (600-1½)	3440-2 569 (600-2)


LOC/DME I-BOI	APP CRS	Rwy Idg	9763
111.1	100°	TDZE	2836
Chan 48		Apt Elev	2871

ILS RWY 10R (CAT II)

BOISE AIR TERMINAL (GOWEN FIELD) (BOI)

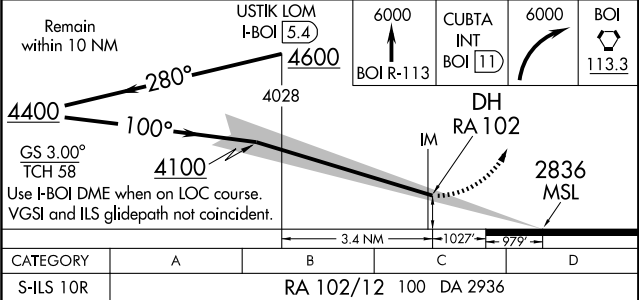
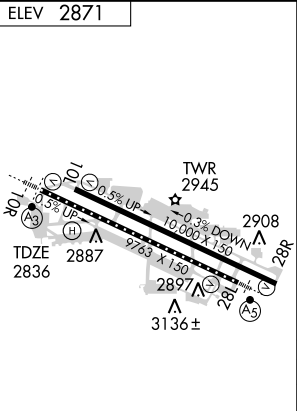
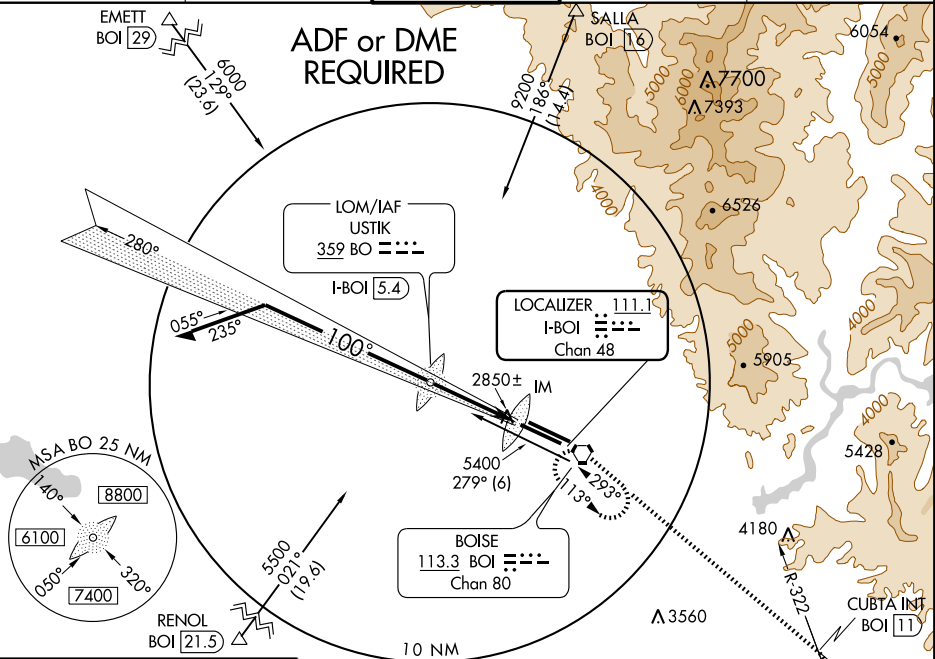
⚠ Circling NA north of Rwy 10L-28R.
Procedure does not meet ICAO standard for ALSF/TDZ/CL lighting systems. Authorization to conduct this approach requires specific OPSSPEC approval or LOA for this runway.

SSALR



MISSED APPROACH: Climb to 6000 via BOI VORTAC R-113 to CUBTA INT/BOI 11 DME, and continue climbing right turn to 6000 direct BOI VORTAC and hold.

ATIS	BOISE APP CON	BOISE TOWER	GND CON	CLNC DEL
123.9 290.4	119.6 269.4	118.1 257.8	121.7 348.6	125.9 323.2



REIL Rwy 10L
TDZ/CL Rwy 10R and 28L
HIRL Rwy 10L-28R and 10R-28L

CATEGORY II ILS - SPECIAL AIRCREW & AIRCRAFT CERTIFICATION REQUIRED

BOISE AIR TERMINAL (GOWEN FIELD) (BOI)

MISSED APPROACH: Climb to 4500 via BOI
VORTAC R-278 to JIMMI/12 DME/RADAR
and hold.

CLNC DEL
125.9 323.2

JIMMI
BOI [12]
RADAR

098°
278°
R-278

Maximum holding
airspeed 230 KIAS.

LOCALIZER
I-BOI [111.1]
Chan 48

BOISE
113.3 BOI []
Chan 80

JUXID
I-BOI [0.5]
RADAR

3015±
OYIGA
I-BOI [1.7]
RADAR

WEXAK
I-BOI [6.2]
RADAR

3113±
4180

3709± A
5300
280° (3.6)

ZESNA
I-BOI [9.7]
RADAR

(IF)
VEVUC
I-BOI [15.1]
RADAR

(IAF)
IYECO
I-BOI [20]
RADAR

5360

6900
280°
(4.9)

100°

MSA BOI 25 NM

130°

[9500]

[6600]

300°

ELEV 2871

NW-1. 08 APR 2010 to 06 MAY 2010

ELEV 2871

BACK COURSE

REIL Rwy 10L
TDZ/CL Rwy 10R and 28L
HRL Rwy 10L-28R and 10R-28L

FAF to MAP 5.7 NM

Knots	60	90	120	150	180
Min:Sec	5:42	3:48	2:51	2:17	1:54

4500
↑
BOI R-278

JIMMI
BOI 12
RADAR

Use I-BOI DME when on LOC course.
VGSI and descent angles not coincident.
Disregard glideslope indications.

VEVUC
I-BOI 15.1
RADAR

ZESNA
I-BOI 9.7
RADAR

WEXAK
I-BOI 6.2
RADAR

OYIGA
I-BOI 1.7
RADAR

JUXID
I-BOI 0.5
RADAR

I-BOI DME ANTENNA

6900

280°

6300

5300

3640

3.49°
TCH 50

0.8

1.2 NM

4.5 NM

3.6 NM

5.3 NM


Procedure
Turn
NA

CATEGORY	A	B	C	D	E
S-28L	3300/24	442 (500-½)	3300/40 442 (500-¾)	3300/50	442 (500-1)
CIRCLING	3440-1	569 (600-1)	3440-1½ 569 (600-1½)	3440-2 569 (600-2)	3860-3 989 (1000-3)

BO NDB 359	APP CRS 102°	Rwy Idg 9763 TDZE 2836 Apt Elev 2871
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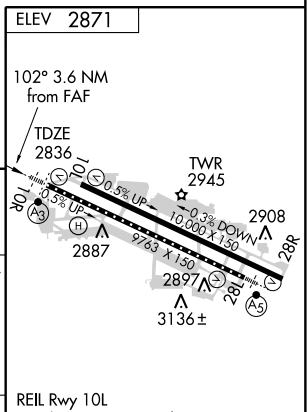
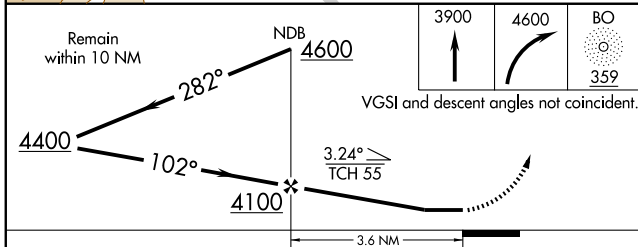
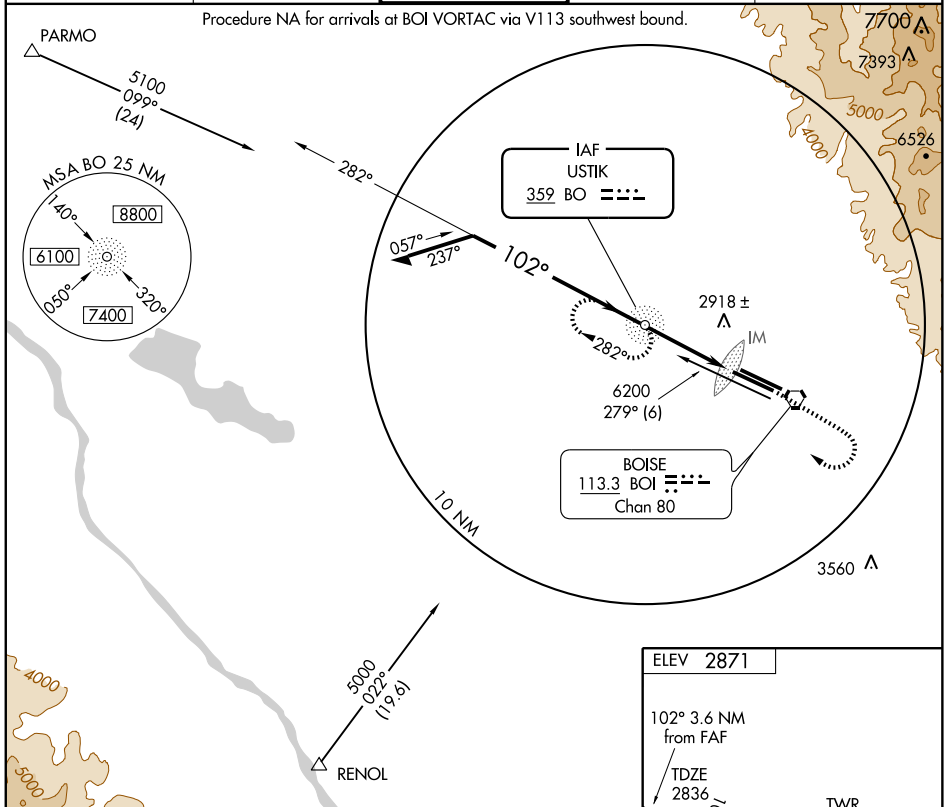
NDB RWY 10R

BOISE AIR TERMINAL (GOWEN FIELD) (BOI)

<p>T For inoperative MALSR, increase S-10R Cat C visibility to RVR 5000. Circling NA north of Rwy 10L-28R.</p>	<p>SSALR</p> 	<p>MISSED APPROACH: Climb to 3900 then climbing right turn to 4600 direct BO NDB and hold.</p>
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ATIS 123.9 290.4	BOISE APP CON 119.6 269.4	BOISE TOWER 118.1 257.8	GND CON 121.7 348.6	CLNC DEL 125.9 323.2
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Procedure NA for arrivals at BOI VORTAC via V113 southwest bound.



CATEGORY	A	B	C	D
S-10R	3220/40 384 (400- $\frac{3}{4}$)			3220/50 384 (400-1)
CIRCLING	3300-1 429 (500-1)	3340-1 469 (500-1)	3340-1 $\frac{1}{2}$ 469 (500-1 $\frac{1}{2}$)	3440-2 569 (600-2)

TDZ/CL Rwy's 10R and 28L					
HIRL Rwy's 10L-28R and 10R-28L					
FAF to MAP 3.6 NM					
Knots	60	90	120	150	180
Min:Sec	3:36	2:24	1:48	1:26	1:12

▼

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -20°C (-4°F) or above 42°C (108°F).
Circling NA north of Rwy 10L and 28R. DME/DME RNP- 0.3 NA.
Visibility reduction by helicopters NA.

MISSED APPROACH: Climb to 7200 direct JARID and via track 115° to CANEK and hold.

ATIS	BOISE APP CON	BOISE TOWER	GND CON	CLNC DEL
123.9 290.4	119.6 269.4	118.1 257.8	121.7 348.6	125.9 323.2

Procedure NA for arrivals at RENOL via V113 southwest bound, and arrivals at PARMO via V500 northwest bound.

IAF) PARMO
5200 NoPT 098° (176.6)

IF/IAF) ATTOL
5200 NoPT 190° (5.7)

IF/IAF) ATTOL
100° 280° 5 NM

IAF) BOYCA
5200 NoPT 010° (5.8)

FAF) MIGEE
4100 100° (7.4)

2867± RW10L

2880± JARID

7393 A

3000 4000

MSA RW10L 25 NM
9400

ELEV 2871

100° to RW10L

TDZE 2844

TWR 2945

2908

2887

2897

3136±

28R

10R

0.5% Up

0.5% Up

0.3% Down

10.000 X 150

9763 X 150

28L

REIL Rwy 10L

TDZ/CL Rwy 10R and 28L

HIRL Rwy 10L-28R and 10R-28L

RENOL
6000 355° (13.8)

MISSED APCH FIX
7 NM
295°
115°
CANEK

5 NM Holding Pattern		ATTOL	7200	JARID	trk 115°	CANEK
5200		280°	100°	100°	MIGEE	*LNAV only
GS 3.00° TCH 53		4100	7.4 NM	2.6 NM	1.2	
CATEGORY	A	B	C	D		
LPV DA	3094-1		250 (300-1)			
LNAV/VNAV DA	3173-1¼		329 (400-1¼)			
LNAV MDA	3280-1	436 (500-1)	3280-1¼ 436 (500-1¼)	3280-1½ 436 (500-1½)		
CIRCLING	3440-1	569 (600-1)	3440-1½ 569 (600-1½)	3440-2 569 (600-2)		

NW-1. 08 APR 2010 to 06 MAY 2010

▼

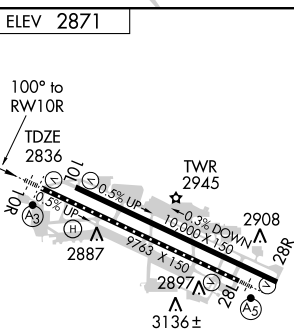
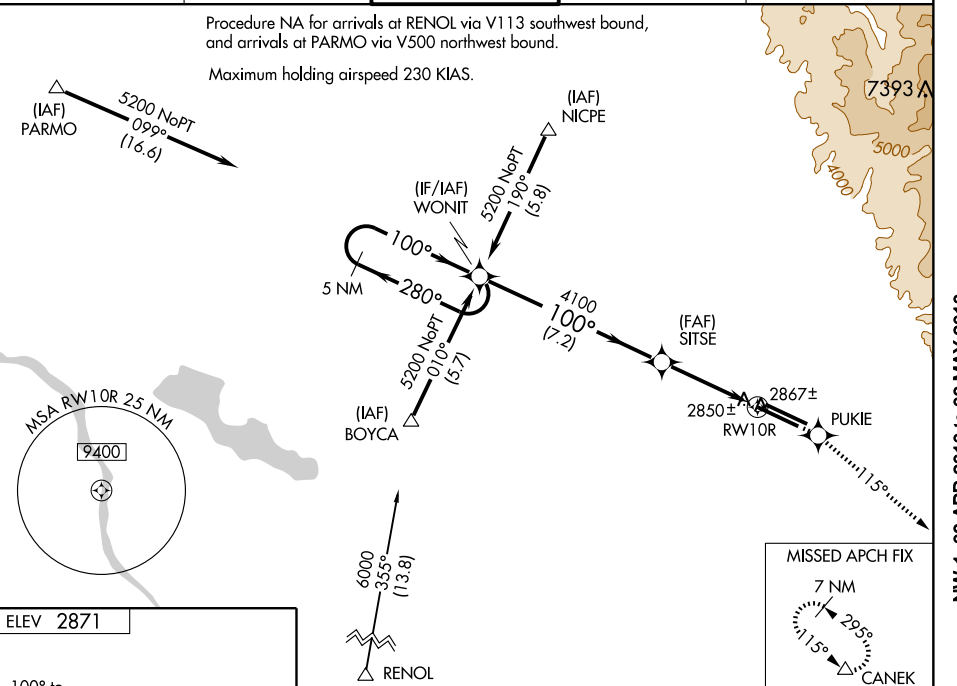
▲

For inoperative SSALR, increase LNAV Cat. D visibility to RVR 6000.
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -20°C (-4°F) or above 42°C (107°F).
Circling NA north of Rwys 10L and 28R.
DME/DME RNP- 0.3 NA.

SSALR

MISSED APPROACH: Climb to 7200
direct PUKIE and via track 115° to
CANEK and hold.

ATIS 123.9 290.4	BOISE APP CON 119.6 269.4	BOISE TOWER 118.1 257.8	GND CON 121.7 348.6	CLNC DEL 125.9 323.2
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VGSI and RNAV glidepath not coincident.				
5 NM Holding Pattern				
CATEGORY	A	B	C	D
LPV DA	3086/24 250 (300-½)			
LNAV/VNAV DA	3189/40 353 (400-¾)			
LNAV MDA	3240/24	404 (400-½)	3240/40 404 (400-¾)	3240/50 404 (400-1)
CIRCLING	3440-1	569 (600-1)	3440-1½ 569 (600-1½)	3440-2 569 (600-2)

7200
↑
SITSE

PUKIE
✱

trk
115°

CANEK
△

*1.1 NM to RWY 10R

*LNAV only

NW-1. 08 APR 2010 to 06 MAY 2010

WAAS CH 77702 W28A	APP CRS 280°	Rwy Idg TDZE Apt Elev	9763 2858 2871
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RNAV (GPS) Y RWY 28L
BOISE AIR TERMINAL (GOWEN FIELD) (BOI)

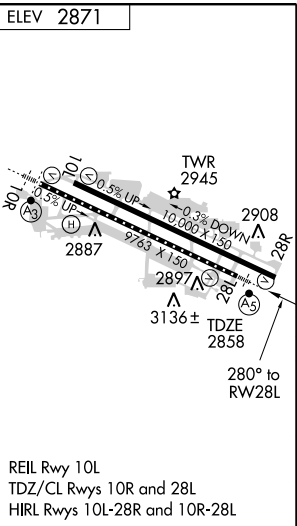
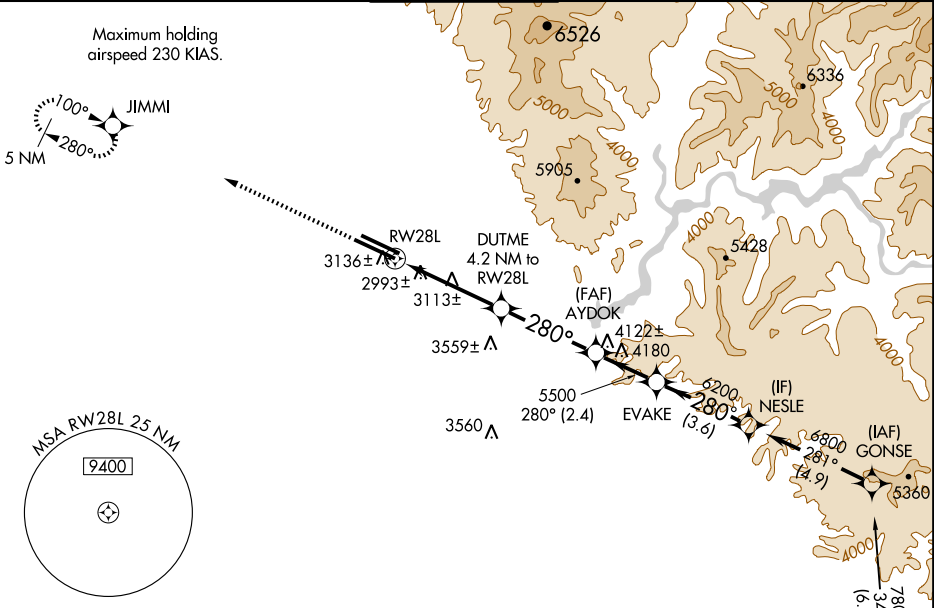
T Circling NA north of Rwy 10L-28R. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -20°C (-4°F) or above 43°C (109°F). DME/DME RNP 0.3 NA.
A For inoperative MALS, increase LPV visibility to RVR 5000 all Cats, LNAV/VNAV Cat E to 1½, and LNAV Cat E to 2¼.

MALS



MISSED APPROACH: Climb to 6000 direct JIMMI and hold, continue climb-in-hold to 6000.

ATIS 123.9 290.4	BOISE APP CON 119.6 269.4	BOISE TOWER 118.1 257.8	GND CON 121.7 348.6	CLNC DEL 125.9 323.2
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Procedure NA for arrivals at CANEK via V4-253-330 southeast bound.					
CATEGORY	A	B	C	D	E
LPV DA	3183/24 325 (400-½)				
LNAV/VNAV DA	3274/50 416 (500-1)				
LNAV MDA	3480/24	622 (700-½)	3480/60 622 (700-1¼)	3480-1½ 622 (700-1½)	3480-1¾ 622 (700-1¾)
CIRCLING	3480-1	609 (700-1)	3480-1¾ 609 (700-1¾)	3480-2 609 (700-2)	3860-3 989 (1000-3)

RNAV (GPS) Y RWY 28R

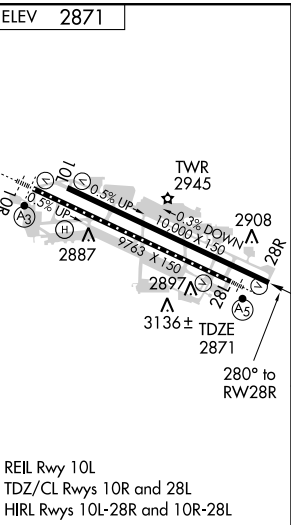
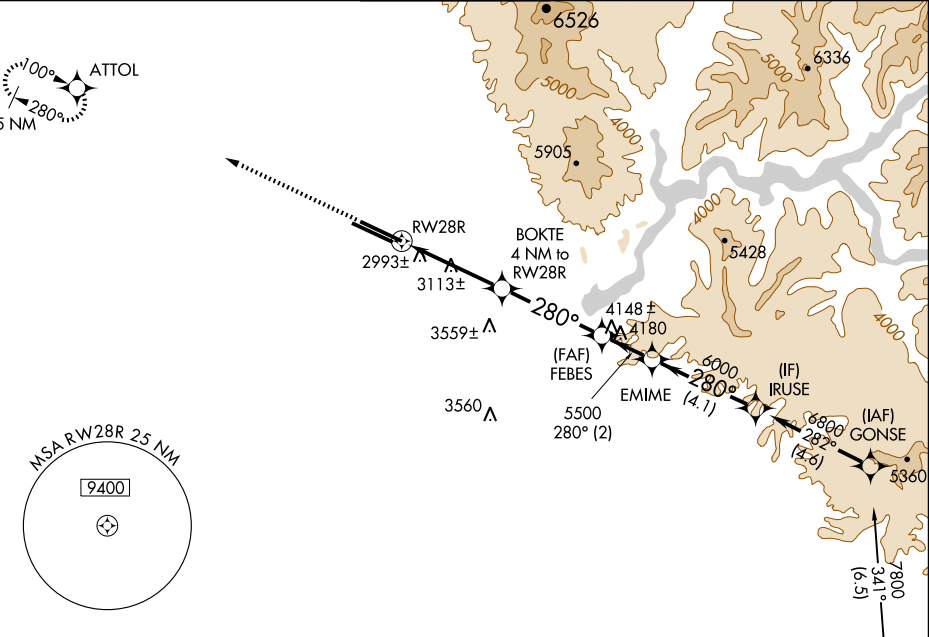
BOISE AIR TERMINAL (GOWEN FIELD) (BOI)

WAAS CH 65803 W28B	APP CRS 280°	Rwy Idg 10000 TDZE 2871 Apt Elev 2871
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⚠ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -20°C (-4°F) or above 43°C (109°F).
DME/DME RNP-0.3 NA. Circling NA north of Rwy 10L-28R.

MISSED APPROACH: Climb to 6000 direct ATTO and hold, continue climb-in-hold to 6000.

ATIS 123.9 290.4	BOISE APP CON 119.6 269.4	BOISE TOWER 118.1 257.8	GND CON 121.7 348.6	CLNC DEL 125.9 323.2
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Procedure NA for arrivals at CANEK via V4-253-330 southeast bound.

6000	ATTO	IRUSE		
*LNAV only	BOKTE 4 NM to RW28R	EMIME		
*1.9 NM to RW28R	FEBES	6800		
RW28R	4200*	5500		
1.9 NM	2.1 NM	3.9 NM		
2.1 NM	2 NM	4.1 NM		
CATEGORY	A	B	C	D
LPV DA	3147/50	276 (300-1)		
LNAV/VNAV DA	3271-1½	400 (400-1½)		
LNAV MDA	3520/50	649 (700-1)	3520-1¾ 649 (700-1¾)	3520-2 649 (700-2)
CIRCLING	3520-1	649 (700-1)	3520-1¾ 649 (700-1¾)	3520-2 649 (700-2)

RNAV (RNP) Z RWY 10L
BOISE AIR TERMINAL (GOWEN FIELD) (BOI)

MISSED APPROACH: Climb to 7200 via track 100° to FEBES and via track 123° to CANEK and hold.

MSA RW10L 25 NM
9400

(IAF) EMETT
4800
138°
(18.6)

(IAF) PARMO
4800
099°
(18)

(IAF) JIMMI
4800
065°
(22.6)

(IAF) CADKI
4800
099°
(18)

(IF) HULKU
3800
099°
(6.9)

ZAMDA
Max 180 KIAS

(IF) APISE
5000
016°
(5)

BUXXE
Max 180 KIAS

(IF) EKEME
5500
281°
(3.5)

(IF) CUVEL
3800
(2)

(FAF) FATIB
3800
(2.2)

HEPUB
5800
178°
(4.5)

ASAYU
4900
178°
(4.5)

ALSIZ
Max 180 KIAS

(IF) KOLKE
6200
280°
(4.5)

APUPE
7100
280°
(3.5)

WATAD
7800
241°
(8.5)

VELUY
9800
241°
(10)

(IAF) EREXE
7800 to APUPE
281°
(23.5)

(IAF) CANEK
(RF REQD)

(IAF) UTEGE
(RNP 0.70)
(RF REQD)

(IAF) BANGS
(RNP 0.70)
(RF REQD)

RADAR required for procedure entry at UTEGE

Procedure NA for arrivals at RENOL via V113 southwest bound.

MISSED APCH FIX
7 NM
295°
115°
CANEK


ELEV 2871

JW-1 08 APR 2010 to 06 MAY 2010

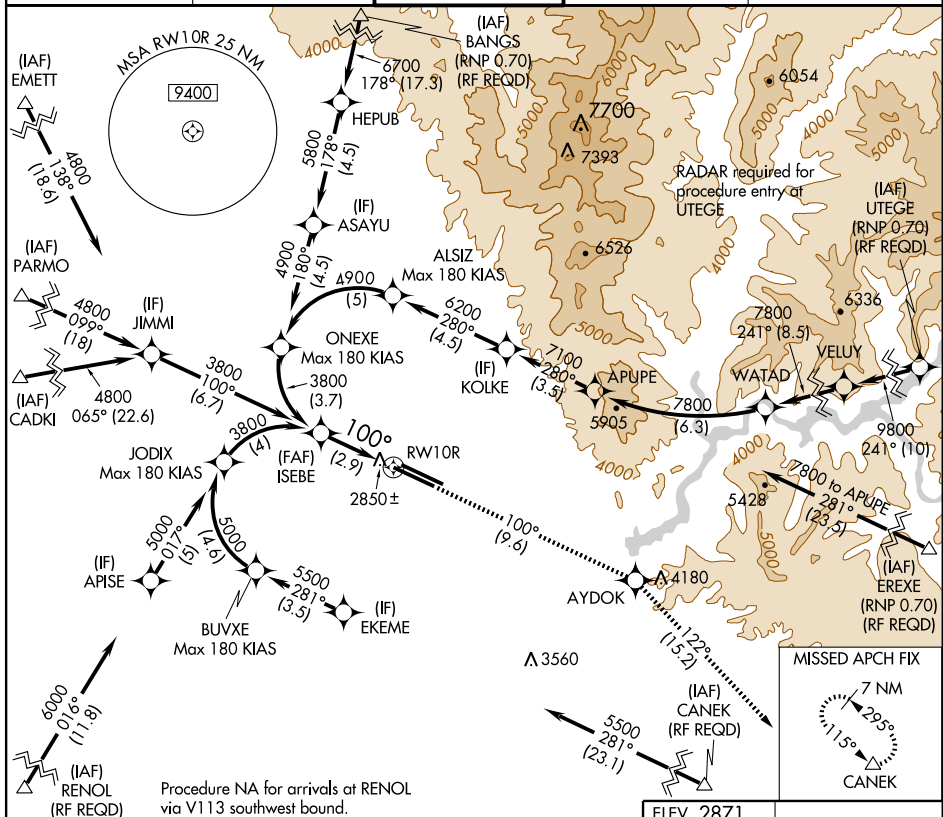
APP CRS	Rwy Idg	9763
100°	TDZE	2836
	Apt Elev	2871

RNAV (RNP) Z RWY 10R

BOISE AIR TERMINAL (GOWEN FIELD) (BOI)

<p>GPS required. For uncompensated Baro-VNAV systems, procedure NA below -14°C (7°F) or above 42°C (107°F). For inoperative SSALR increase RNP 0.15 and RNP 0.30 visibility all Cnts to RVR 5000.</p>	<p>SSALR</p> 	<p>MISSED APPROACH: Climb to 7200 via track 100° to AYDOK and via track 122° to CANEK and hold.</p>
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ATIS 123.9 290.4	BOISE APP CON 119.6 269.4	BOISE TOWER 118.1 257.8	GND CON 121.7 348.6	CLNC DEL 125.9 323.2
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Procedure Turn NA	ISEBE 3800	7200 ↑ trk 100°	AYDOK ✧	trk 122°	CANEK △
GP 3.00° TCH 58	3800	100°	RWY 10R	VGSI and RNAV glidepath not coincident.	2.9 NM
CATEGORY	A	B	C	D	
RNP 0.15 DA	3115/24	279 (300-½)			
RNP 0.30 DA	3151/40	315 (300-¾)			
SPECIAL AIRCRAFT & AIRCREW AUTHORIZATION REQUIRED					
<p>REIL Rwy 10L TDZ/CL Rwy 10R and 28L HIRL Rwy 10L-28R and 10R-28L</p>					

APP CRS	Rwy Idg	9763
280°	TDZE	2858
	Apt Elev	2871

RNAV (RNP) Z RWY 28L

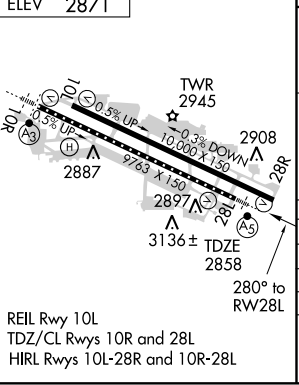
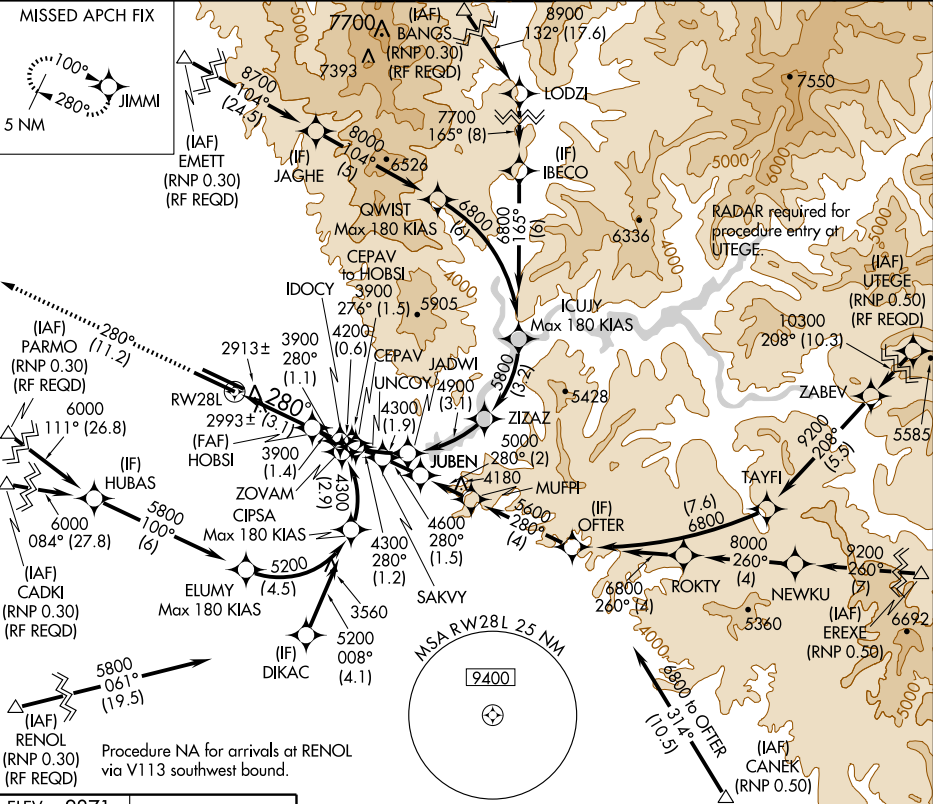
BOISE AIR TERMINAL (GOWEN FIELD) (B1)

GPS required. For uncompensated Baro-VNAV systems, procedure NA below -14°C (7°F) or above 42°C (107°F). For inoperative MALSR increase RNP 0.15 and RNP 0.25 visibility to RVR 6000, and RNP 0.30 to 1½.

MALSR

MISSED APPROACH: Climb to 6000 via track 280° to JIMMI and hold, continue climb-in-hold to 6000.

ATIS	BOISE APP CON	BOISE TOWER	GND CON	CLNC DEL
123.9 290.4	119.6 269.4	118.1 257.8	121.7 348.6	125.9 323.2



6000

↑

trk 280°

JIMMI

✦

HOBSI

3900

Procedure Turn NA

RW28L

280°

3900

GP 3.00°

TCH 50

3.1 NM

CATEGORY	A	B	C	D
RNP 0.15 DA		3228/40	370 (400-¾)	
RNP 0.25 DA		3250/50	392 (400-1)	
RNP 0.30 DA		3315/60	457 (500-1½)	

SPECIAL AIRCRAFT & AIRCREW AUTHORIZATION REQUIRED

NW-1: 08 APR 2010 to 06 MAY 2010

APP CRS	Rwy Idg	10000
280°	TDZE	2871
	Apt Elev	2871

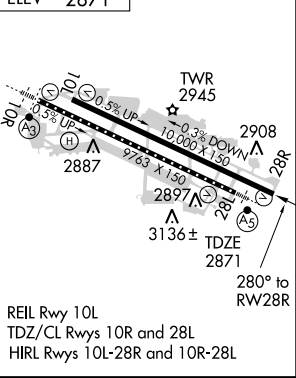
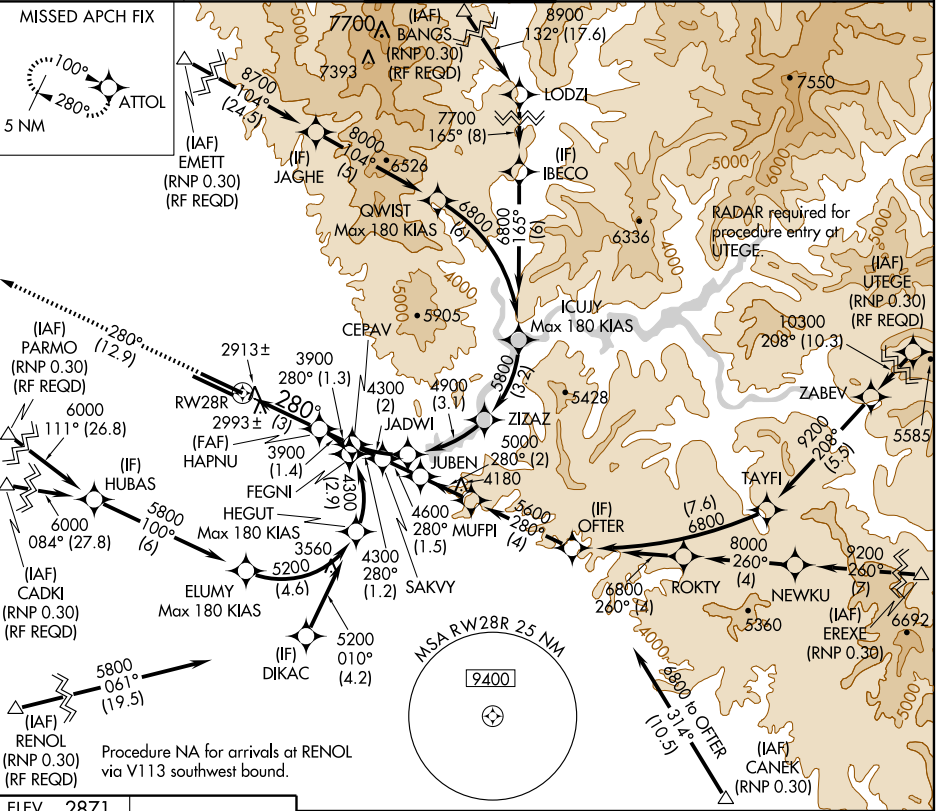
RNAV (RNP) Z RWY 28R

BOISE AIR TERMINAL (GOWEN FIELD) (BOI)

GPS required. For uncompensated Baro-VNAV systems, procedure NA below -14°C (7°F) or above 42°C (107°F). Visibility reduction by helicopters NA.

MISSED APPROACH: Climb to 6000 via track 280° to ATTOL and hold, continue climb-in-hold to 6000.

ATIS	BOISE APP CON	BOISE TOWER	GND CON	CLNC DEL
123.9 290.4	119.6 269.4	118.1 257.8	121.7 348.6	125.9 323.2



<div>6000 ↑ trk 280°</div> <div>ATTOL </div>		<div>HAPNU 3900</div> <div>Procedure Turn NA</div>		
<div>RW28R </div>		<div>3900</div> <div>GP 3.00° TCH 52</div>		
<div>280°</div>		<div>3 NM</div>		
CATEGORY	A	B	C	D
RNP 0.15 DA	3204/60 333 (400-1¼)			
RNP 0.30 DA	3304-1½ 433 (500-1½)			
SPECIAL AIRCRAFT & AIRCREW AUTHORIZATION REQUIRED				

NW-1: 08 APR 2010 to 06 MAY 2010

VOR/DME or TACAN RWY 10L
BOISE AIR TERMINAL (GOWEN FIELD) (BOI)

MISSED APPROACH: Climb to 3700 then climbing right turn to 5000 via heading 320° and BOI R-278 to JIMMI INT and hold.

REIL Rwy 10L
TDZ/CL Rwys 10R and 28L
HIRL Rwys 10L-28R and 10R-28L

VOR/DME or TACAN RWY 28L

BOISE AIR TERMINAL (GOWEN FIELD) (BOI)

BOISE, IDAHO

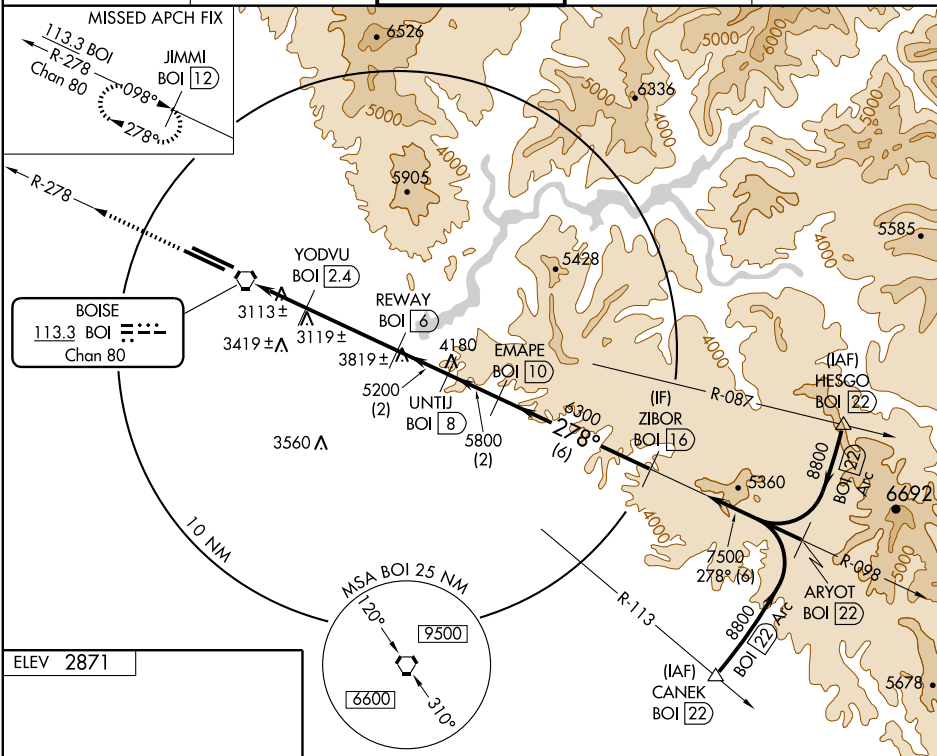
VORTAC BOI 113.3 Chan 80	APP CRS 278°	Rwy Idg 28L 9763 TDZE 2858 Apt Elev 2871	Rwy Idg 28R 10000 TDZE 2871 Apt Elev 2871
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V Circling NA north of Rwy 10L-28R.
A For inoperative MALSR increase S-28L Cat E visibility ½ mile.

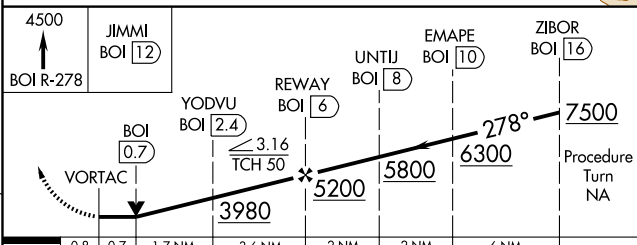
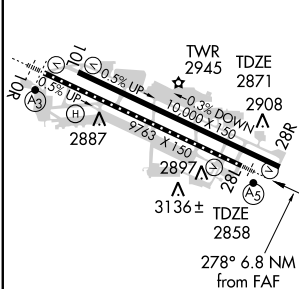


MISSED APPROACH: Climb to 4500 via BOI
 VORTAC R-278 to JIMMI/12 DME and hold.

ATIS 123.9 290.4	BOISE APP CON 119.6 269.4	BOISE TOWER 118.1 257.8	GND CON 121.7 348.6	CLNC DEL 125.9 323.2
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ELEV 2871



REIL Rwy 10L
 TDZ/CL Rwy 10R and 28L
 HIRL Rwy 10L-28R and 10R-28L

CATEGORY	A	B	C	D	E
S-28L	3380/24	522 (600-½)	3380/50 522 (600-1)	3380/60	522 (600-1 ¼)
SIDESTEP RWY 28R	3380/60	509 (600-1 ¼)	3380-1 ¾ 509 (600-1 ¾)	3380-2 ¼	509 (600-2 ¼)
CIRCLING	3440-1	569 (600-1)	3440-1 ½ 569 (600-1 ½)	3440-2	3820-3 949 (1000-3)

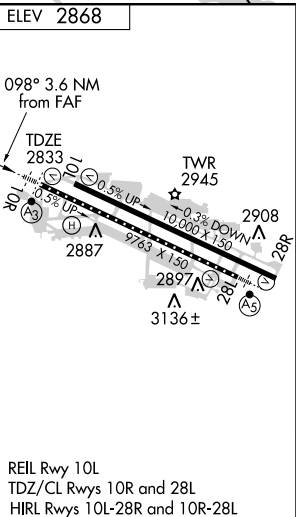
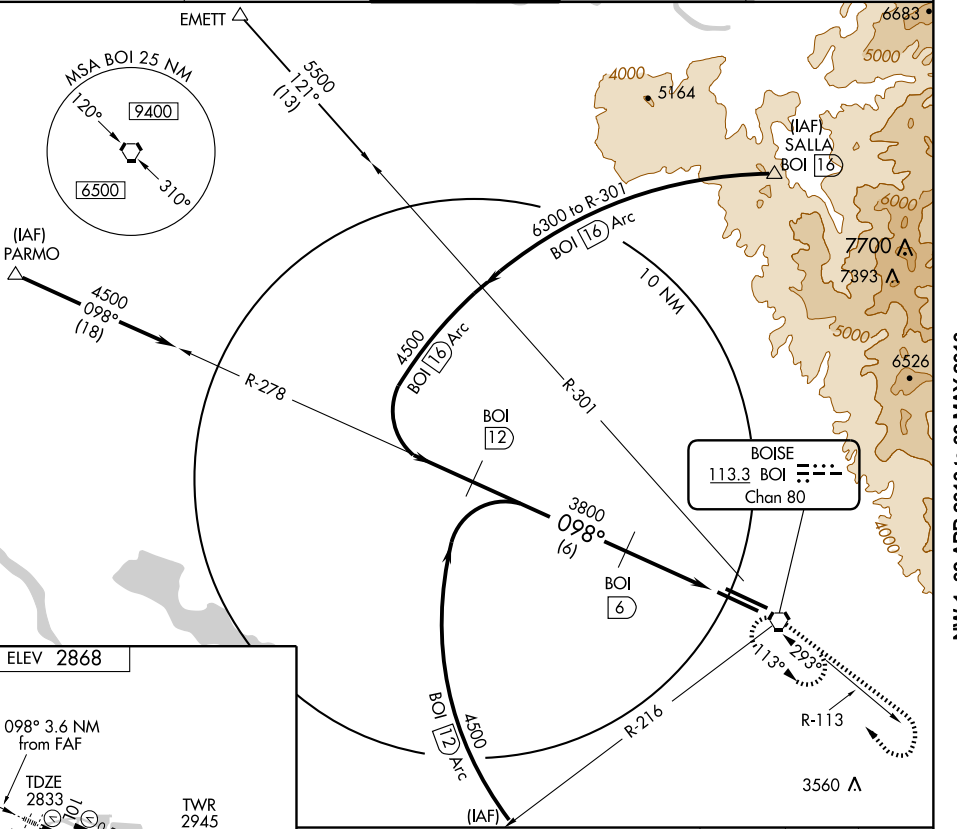
V

Inoperative table does not apply to Cat D.
Circling not authorized north of Rwy 10L-28R.

SSALR

MISSED APPROACH: Climb to 3900 via BOI R-113 within 6 NM, then climbing right turn to 6000 direct BOI VORTAC and hold.

ATIS 123.9 290.4	BOISE APP CON 119.6 269.4	BOISE TOWER 118.1 257.8	GND CON 121.7 348.6	CLNC DEL 125.9 323.2
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	BOI 12	BOI 6	BOI 2.4	
	4500	3800	3600	
	098°	098°	098°	
	6 NM	3.6 NM		
CATEGORY	A	B	C	D
S-10R	3160/24 327 (300-½)			3160/50 327 (300-1)
CIRCLING	3300-1 432 (500-1)	3320-1 452 (500-1)	3320-1½ 452 (500-1½)	3420-2 552 (600-2)

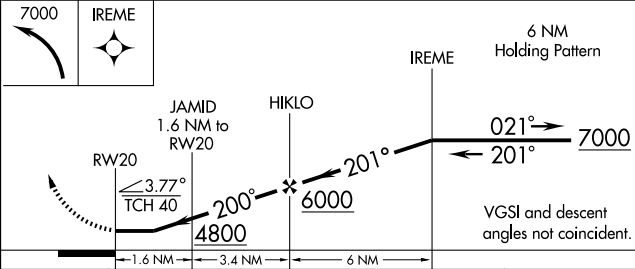
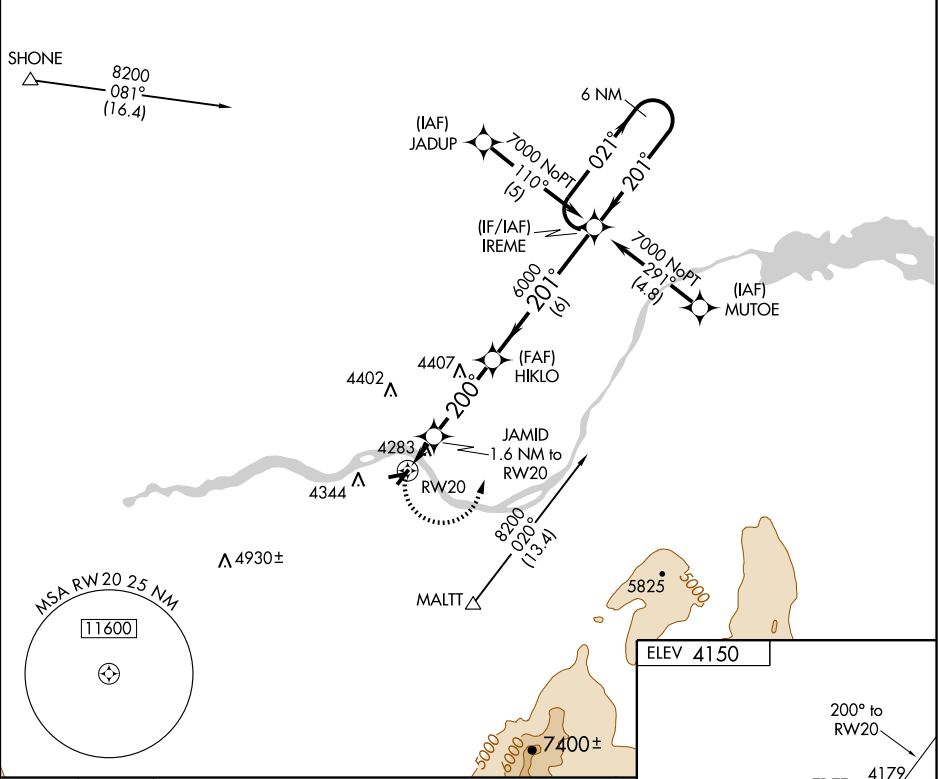
APP CRS	Rwy Idg	3794
200°	TDZE	4149
	Apt Elev	4150

RNAV (GPS) RWY 20

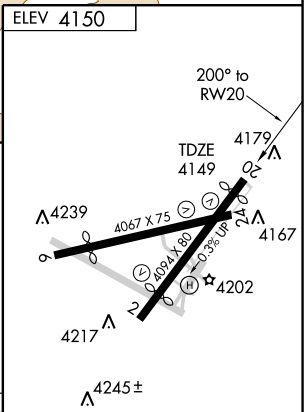
BURLEY MUNI (B71)


 If local altimeter setting not received, use Joslin Field-Magic Valley Rgnl altimeter setting and increase all MDAs by 80 feet.	MISSED APPROACH: Climbing left turn to 7000 direct IREME WP and hold.
 GPS or RNP -0.3 required. DME/DME RNP-0.3 NA.	

ASOS 135.575	TWIN FALLS APP CON ★ 126.7 353.75	CTAF 122.9 
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CATEGORY	A	B	C	D
LNAV MDA	4560-1	411 (500-1)	4560-1½ 411 (500-1½)	NA
CIRCLING	4660-1	510 (600-1)	4660-1½ 510 (600-1½)	NA

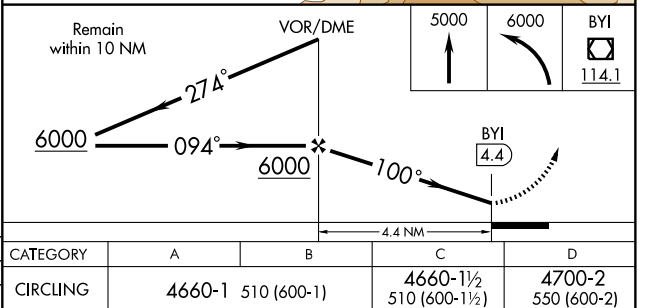
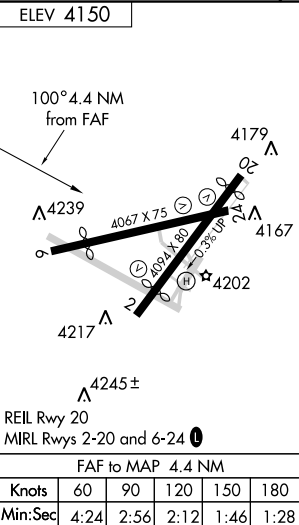
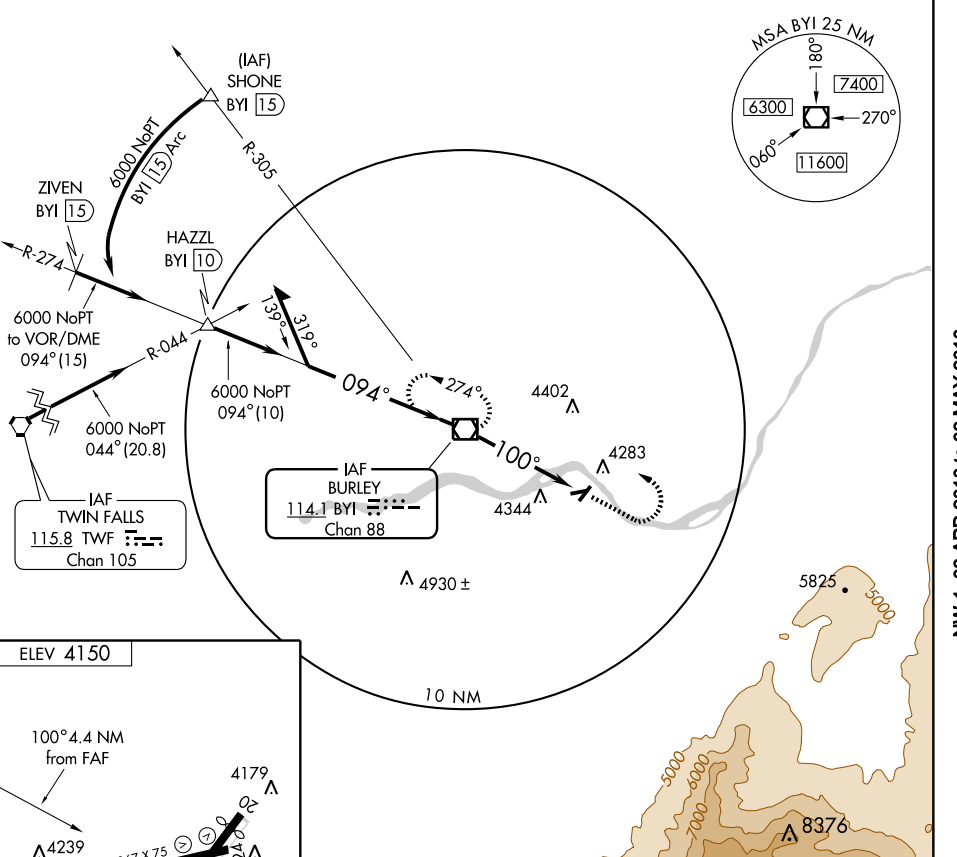


REIL Rwy 20	MIRL Rwy 20 and 6-24 
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▲ If local altimeter setting not received, use Joslin Field-Magic Valley Rgnl altimeter setting and increase all MDAs 80 feet.

▲ MISSED APPROACH: Climb to 5000 then climbing left turn to 6000 direct BYI VOR/DME and hold.

ASOS 135.575	TWIN FALLS APP CON ★ 126.7 353.75	CTAF 122.9
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NW-1. 08 APR 2010 to 06 MAY 2010

VOR/DME BYI <u>114.1</u> Chan 88	APP CRS 280°	Rwy Idg N/A TDZE N/A Apt Elev 4150
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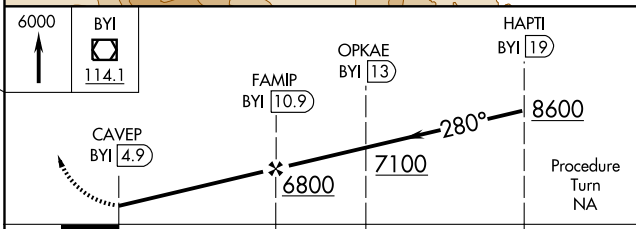
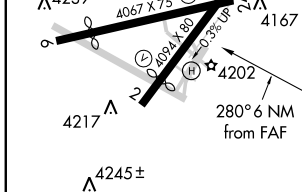
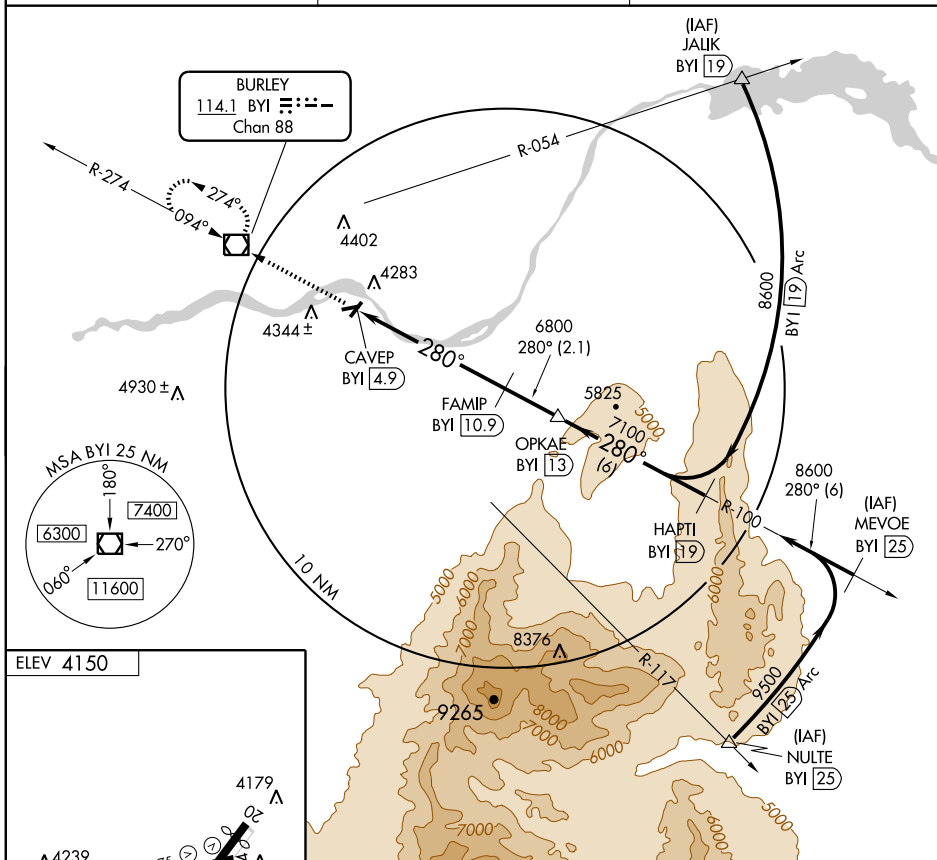
VOR/DME-B
BURLEY MUNI (BYI)

T If local altimeter setting not received, use Joslin Field-Magic
A Valley Rgnl altimeter setting and increase all MDAs 80 feet.

MISSED APPROACH: Climb to 6000 direct BYI VOR/DME and hold.

ASOS
135.575

TWIN FALLS APP CON ★
126.7 353.75

CTAF
122.9 **L**

REIL Rwy 20
MIRL Rwy 2-20 and 6-24 **L**

CATEGORY	A	B	C	D
CIRCLING	4660-1	510 (600-1)	4660-1½ 510 (600-1½)	4700-2 550 (600-2)

NDB MPA	APP CRS	Rwy Idg	5500
<u>238</u>	<u>281°</u>	TDZE	2432
		Apt Elev	2432

NDB RWY 30

CALDWELL INDUSTRIAL (EUL)

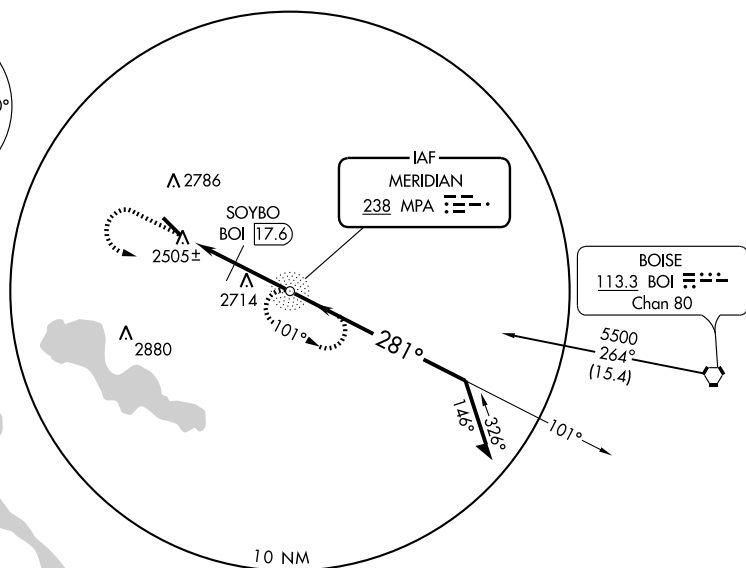
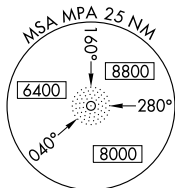
When local altimeter setting not received, use Boise altimeter setting and increase all MDA 120 feet and all visibilities ½ mile.

MISSED APPROACH: Climb to 3500 then climbing left turn to 5400 direct MPA NDB and hold, continue climb-in-hold to 5400.

AWOS-3
135.075

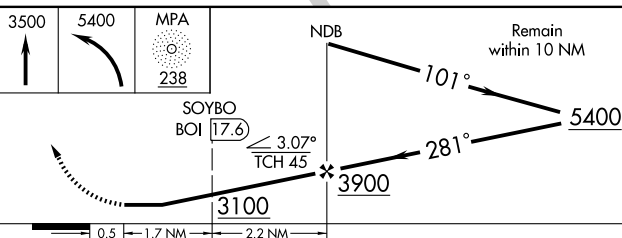
BOISE APP CON
119.6 269.4

UNICOM
122.7 (CTAF)



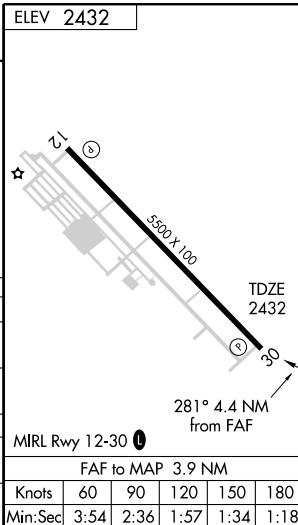
Λ 4316

• 4837



CATEGORY	A	B	C	D
S-30	3100-1	668 (700-1)	3100-1¾ 668 (700-1¾)	3100-2 668 (700-2)
CIRCLING	3100-1	668 (700-1)	3100-1¾ 668 (700-1¾)	3100-2 668 (700-2)
DME MINIMUMS				
S-30	2940-1	508 (600-1)	2940-1½	508 (600-1½)
CIRCLING	3100-1	668 (700-1)	3100-1¾ 668 (700-1¾)	3100-2 668 (700-2)

ELEV 2432



FAF to MAP 3.9 NM					
Knots	60	90	120	150	180
Min:Sec	3:54	2:36	1:57	1:34	1:18

WAAS
CH 97707
W12A

APP CRS
119°

Rwy Idg	5500
TDZE	2431
Apt Elev	2432

RNAV (GPS) RWY 12
CALDWELL INDUSTRIAL (EUL)

Caldwell Industrial (EUL)



DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA.
Baro-VNAV NA when using Boise altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -19°C (-2°F) or above 44°C (111°F). When local altimeter setting not received, use Boise altimeter setting and increase all DA/MDA 120 feet and all visibilities ½ mile.

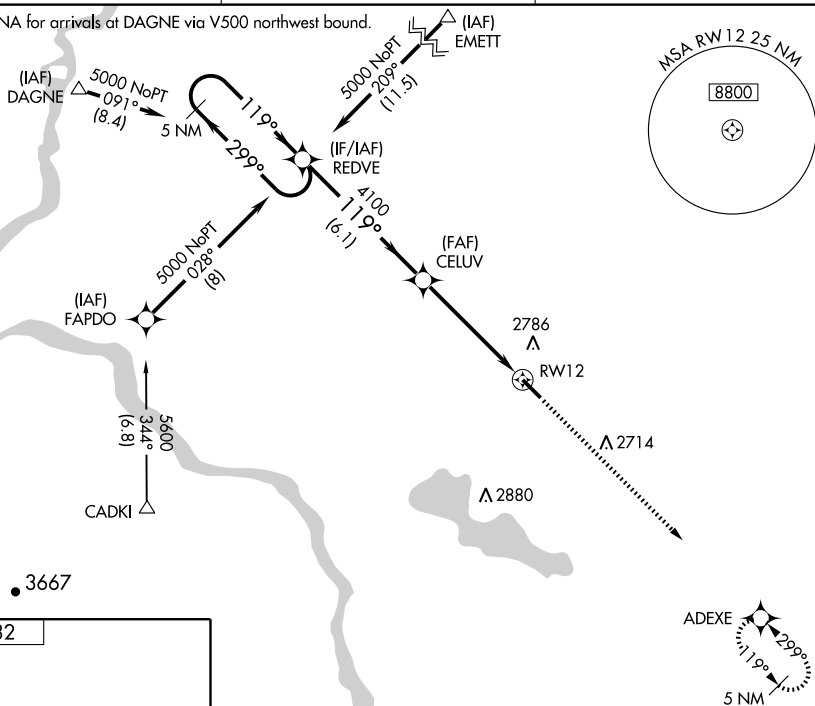
MISSED APPROACH: Climb to 5000
direct ADEXE and hold.

AWOS-3
135.075

BOISE APP CON
119.6 269.4

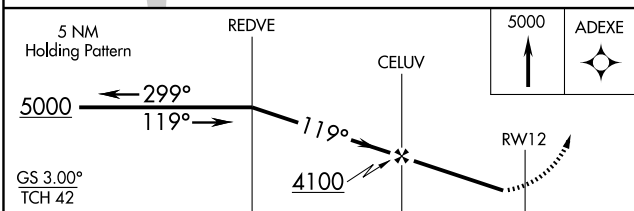
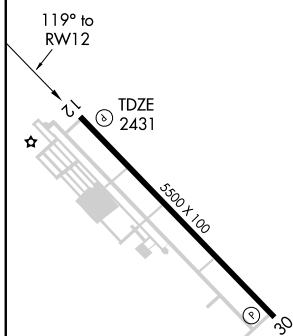
UNICOM
122.7 (CTAF)

Procedure NA for arrivals at DAGNE via V500 northwest bound.



NW-1. 08 APR 2010 to 06 MAY 2010

ELEV 2432



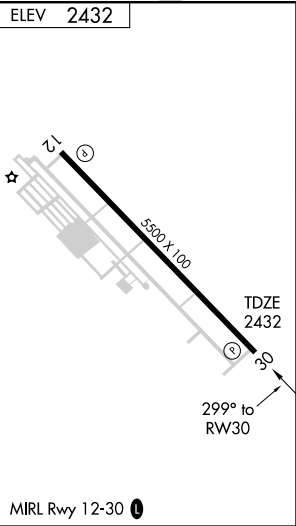
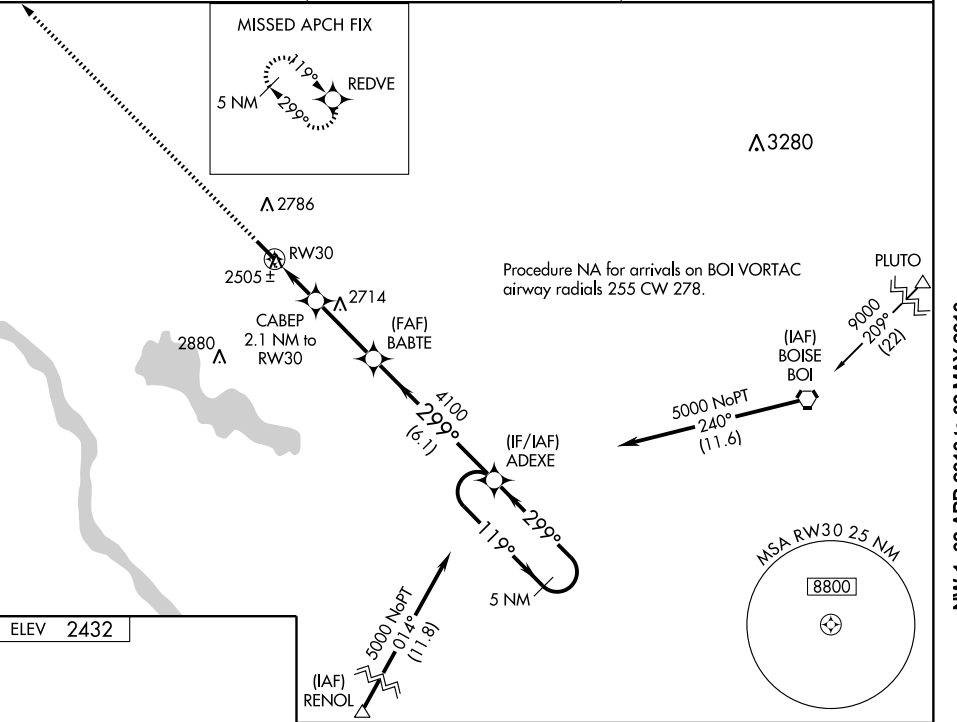
		6.1 NM		5.1 NM			
CATEGORY	A	B	C	D			
LPV DA	2700-1		269 (300-1)				
LNAV/VNAV DA	2994-2		563 (600-2)				
LNAV MDA	2840-1 409 (500-1)		2840-1¼ 409 (500-1¼)				
CIRCLING	3100-1 668 (700-1)		3100-1¾ 668 (700-1¾)		3100-2 668 (700-2)		

MIRL Rwy 12-30

⚠ DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA.
⚠ Baro-VNAV NA when using Boise altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -19°C (-2°F) or above 44°C (111°F). When local altimeter setting not received, use Boise altimeter setting and increase all DA/MDA 120 feet and all visibilities ½ mile.

MISSED APPROACH: Climb to 5000
direct REDVE and hold.

AWOS-3 135.075	BOISE APP CON 119.6 269.4	UNICOM 122.7 (CTAF) 0
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5000	REDVE	CABEP 2.1 NM to RW30	BABTE	ADEXE	5 NM Holding Pattern
*LNAV only					
		RW30			
		3140*	4100		
		2.1 NM	2.9 NM	6.1 NM	
CATEGORY	A	B	C	D	
LPV DA	2687-1		255 (300-1)		
LNAV/VNAV DA	2822-1¼		390 (400-1¼)		
LNAV MDA	2880-1	448 (500-1)	2880-1¼ 448 (500-1¼)	2880-1½ 448 (500-1½)	
CIRCLING	3100-1	668 (700-1)	3100-1¾ 668 (700-1¾)	3100-2 668 (700-2)	

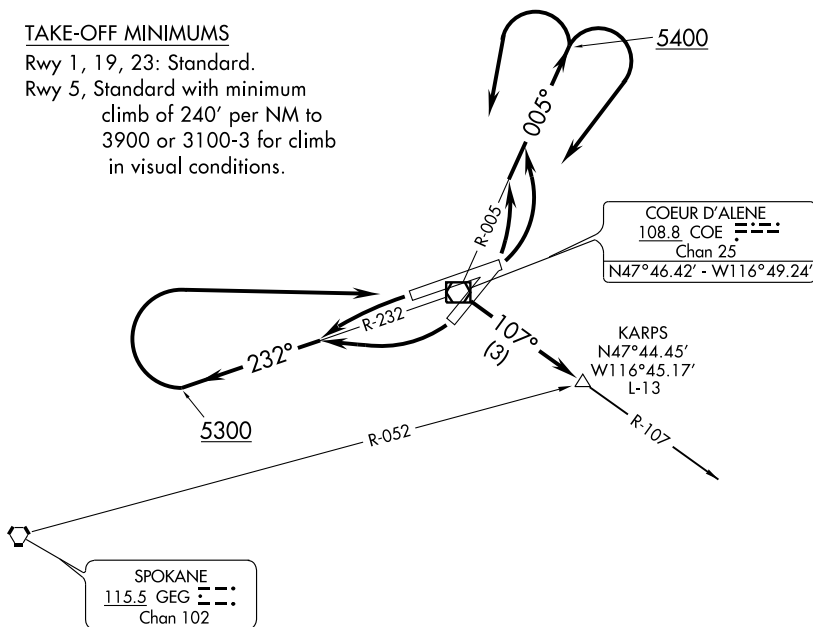
NW-1. 08 APR 2010 to 06 MAY 2010

AWOS-3 135.075
SPOKANE DEP CON
132.1 263.0
UNICOM (CTAF) 122.8

TAKE-OFF MINIMUMS

Rwy 1, 19, 23: Standard.

Rwy 5, Standard with minimum
climb of 240' per NM to
3900 or 3100-3 for climb
in visual conditions.



TAKE-OFF OBSTACLE NOTES

Rwy 19, Trees beginning 165' from DER, 276' right of centerline, up to 109' AGL/2399' MSL.
Tree 2914' from DER, 425' left of centerline, 38' AGL/2383' MSL.

Rwy 5, Poles beginning 895' from DER, 690' right of centerline, up to 44' AGL/2354' MSL.
Trees beginning 1149' from DER, 720' right of centerline, up to 103' AGL/2563' MSL.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 1: Climbing left turn to 5400 via COE R-005, then left or right turn direct COE VOR/DME, then via COE R-107 to KARPS INT to MEA for route of flight.

TAKE-OFF RUNWAY 5: Climbing left turn to 5400 via COE R-005, then left or right turn direct COE VOR/DME, then via COE R-107 to KARPS INT to MEA for route of flight or climb visual conditions to cross Coeur D'Alene-Pappy Boyington Field Airport at or above 5300 before proceeding on course.

TAKE-OFF RUNWAY 19: Climbing right turn, thence....


TAKE-OFF RUNWAY 23: Climbing left turn, thence....

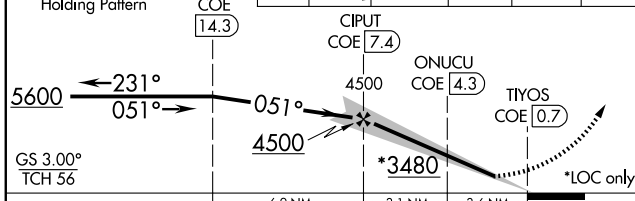
....climb on COE R-232 to 5300, then right direct COE VOR/DME, then via COE R-107 to KARPS INT to MEA for route of flight.

MALSR
A5

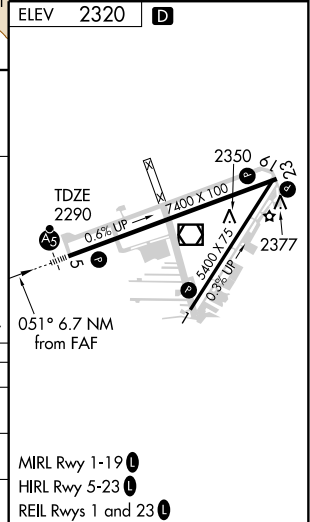
MISSED APPROACH: Climb to 2900 then climbing left turn to 6000 via COE R-350 outbound then climbing left turn to 6500 via COE R-350 inbound to COE VOR/DME and hold.

Procedure NA for arrivals at GEG VORTAC
via airway radials 006 CW 073.

Use COE DME when on the localizer course.	2900	6000	COE R-350 outbound	6500	COE R-350 inbound	COE  108.8
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CATEGORY	A	B	C	D
S-ILS 5	2490-1/2 200 (200-1/2)			
S-LOC 5	2860- 1/2 570 (600-1/2)	2860-1 570 (600-1)	2860-1 1/4 570 (600-1 1/4)	
CIRCLING	2860-1 540 (600-1)	2880-1 1/2 560 (600-1 1/2)	2880-2 560 (600-2)	



NDB LEN	APP CRS	Rwy Idg	7400
<u>347</u>	052°	TDZE	2290
		Apt Elev	2320

NDB RWY 5

COEUR D'ALENE-PAPPY BOYINGTON FIELD (COE)

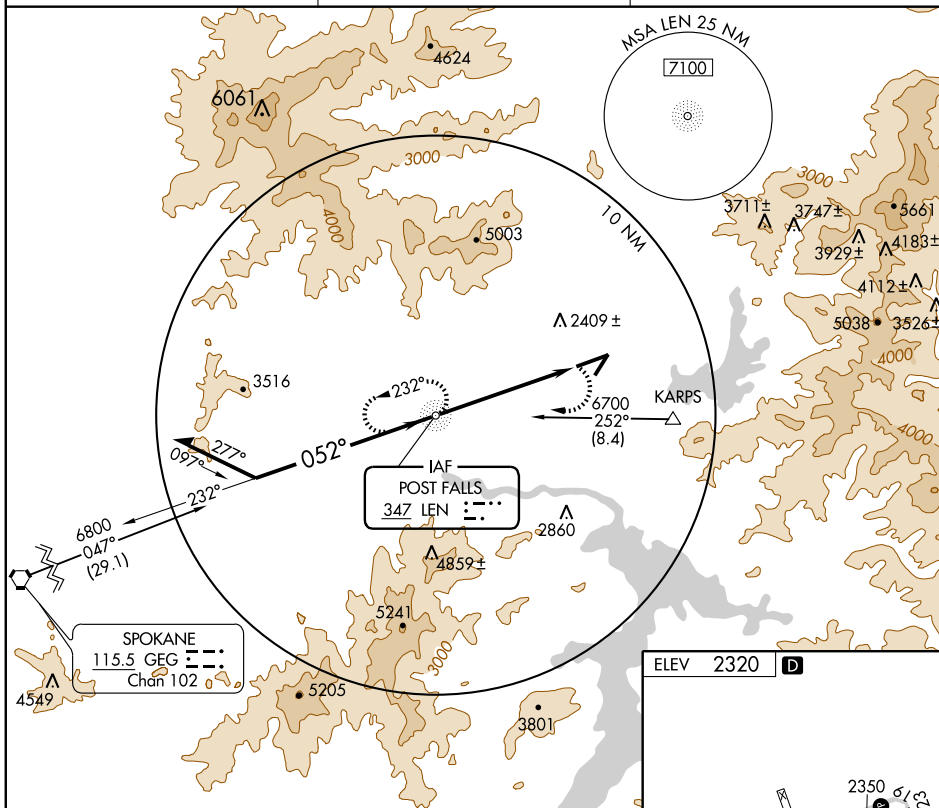
T When local altimeter setting not received, use Spokane
A Intl altimeter setting and increase all MDA 80 feet and
S-5 and circling Cat C visibility ¼ mile.

MALSR

MISSED APPROACH: Climbing right turn to 6400 direct LEN NDB and via LEN NDB bearing 232° outbound then left turn direct LEN NDB and hold.

AWOS-3
135.075

SPOKANE APP CON
132.1 263.0

UNICOM
122.8 (CTAF) **L**

NW-1. 08 APR 2010 to 06 MAY 2010

Remain within 10 NM





NDE

232°

052°

6400

4400

6400 	LEN  <u>347</u>	LEN 232° out bound		LEN  <u>347</u>
---	--	-----------------------------	---	--

VGS and descent angles not coincident.

VGS and descent angles not coincident.

$3.67^\circ \searrow$
TCH 56

ELEV	2320	D
------	------	---

MIRL Rwy 1-19 L

HIRI Rwy 5-23 0

REF: Rwy 1 and 23

FAF to MAP 5.3 NM

Knots	60	90	120	150	180
Min:Sec	5:18	3:32	2:39	2:07	1:46

CATEGORY	A	B	C	D
S-5	2780- $\frac{3}{4}$ 490 (500- $\frac{3}{4}$)	2900- $\frac{3}{4}$ 610 (600- $\frac{3}{4}$)	2920-1 $\frac{1}{4}$ 630 (600-1 $\frac{1}{4}$)	NA
CIRCLING	2920-1 600 (600-1)		2920-1 $\frac{1}{2}$ 600 (600-1 $\frac{1}{2}$)	NA

WAAS CH 70608 W05A	APP CRS 051°	Rwy Idg TDZE Apt Elev 7400 2290 2320
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RNAV (GPS) RWY 5

COEUR D'ALENE-PAPPY BOYINGTON FIELD (COE)

⚠ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -19°C (-2°F) or above 44°C (111°F). DME/DME RNP-0.3 NA. When local altimeter setting not received, use Spokane Intl altimeter setting and increase all DA/MDA 80 feet and all visibilities ¼ mile. Baro-VNAV and VDP NA when using Spokane Intl altimeter setting. For inoperative MALSRR when using Spokane Intl altimeter setting, increase LNAV Cats A and B visibility ¼ mile.

MALSRR



MISSED APPROACH: Climb to 7000 direct CIMAL and via 335° track to CODSA and via 269° track to DIANN and hold.

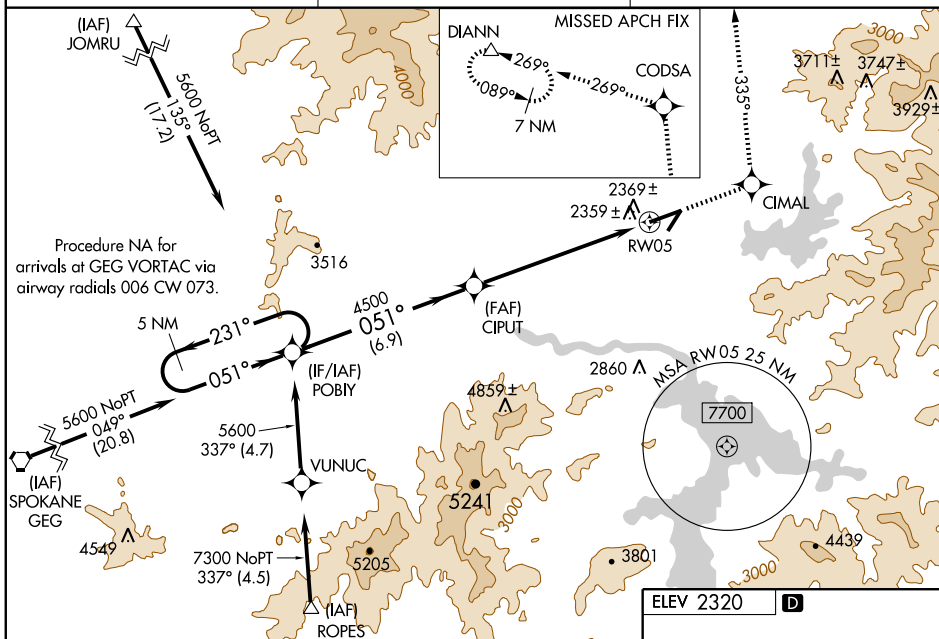
AWOS-3

135.075

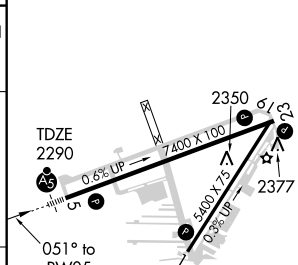
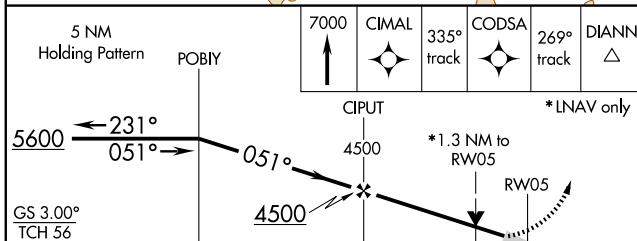
SPOKANE APP CON

132.1 263.0

UNICOM

122.8 (CTAF)

ELEV 2320

D

CATEGORY	A	B	C	D
LPV DA	2490-½ 200 (200-½)			
LNAV/VNAV DA	2653-¾ 363 (400-¾)			
LNAV MDA	2740-½ 450 (500-½)	2740-¾ 450 (500-¾)	2740-1 450 (500-1)	
CIRCLING	2740-1 420 (500-1)	2860-1 540 (600-1)	2880-1½ 560 (600-1½)	2880-2 560 (600-2)

MIRL Rwy 1-19

HIRL Rwy 5-23

REIL Rws 1 and 23

VOR/DME COE	APP CRS	Rwy Idg	7400
108.8	057°	TDZE	2290
Chan 25		Apt Elev	2320

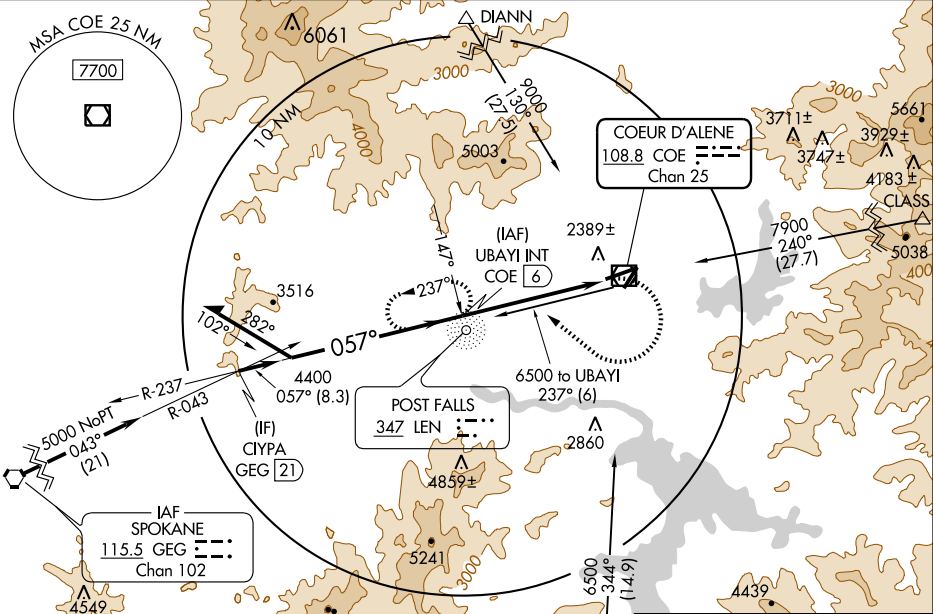
Coeur d'Alene-Pappy Boyington Field (COE)

⚠ When local altimeter setting not received, use Spokane Intl altimeter setting and increase all MDA 80 feet and circling Cat C visibility to 1 3/4 miles.
VDP NA when using Spokane Intl altimeter setting.
ADF or DME required.

MALSR

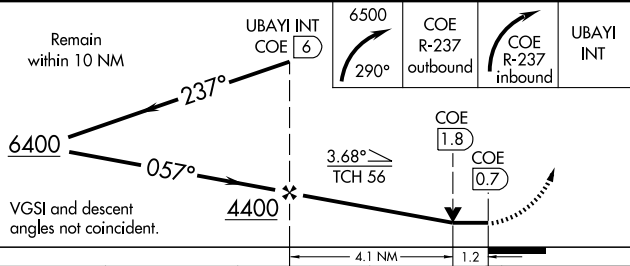
MISSED APPROACH: Climbing right turn to 6500 via heading 290° and COE R-237 outbound then right turn via COE R-237 inbound to UBAYI INT/COE 6 DME and hold.

AWOS-3 135.075	SPOKANE APP CON 132.1 263.0	UNICOM 122.8 (CTAF) 0
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ELEV 2320	D
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ADF or DME REQUIRED



CATEGORY	A	B	C	D
S-5	2700-1/2 410 (400-1/2)		2700-3/4 410 (400-3/4)	NA
CIRCLING	2720-1 400 (400-1)	2860-1 540 (600-1)	2880-1 560 (600-1 1/2)	NA

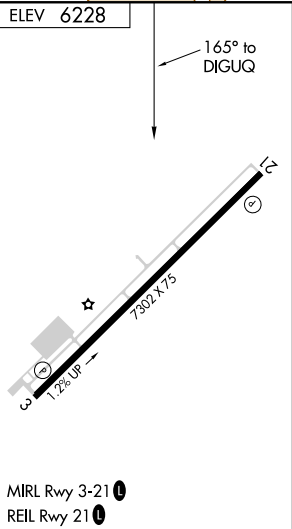
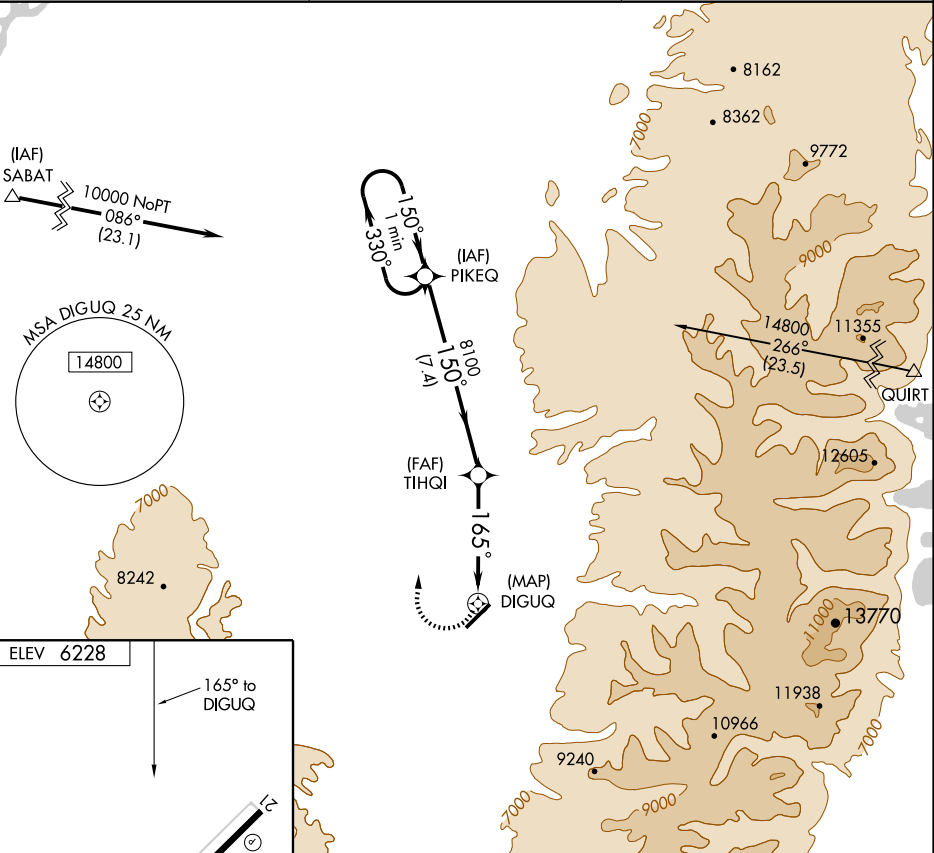
MIRL Rwy 1-19 0					
HIRL Rwy 5-23 0					
REIL Rws 1 and 23 0					
FAF to MAP 5.3 NM					
Knots	60	90	120	150	180
Min:Sec	5:18	3:32	2:39	2:07	1:46

APP CRS	Rwy Idg	N/A
165°	TDZE	N/A
	Apt Elev	6228

GPS-A
DRIGGS-REED MEMORIAL (DIJ)

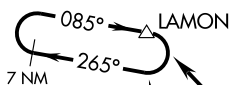
 NA	MISSED APPROACH: Climbing right turn to 10000 direct PIKEQ and hold.
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ASOS 120.775	SALT LAKE CENTER 132.4 239.25	UNICOM 122.7 (CTAF) 
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One Minute Holding Pattern		PIKEQ	10000	PIKEQ
10000		330°	150°	TIHQI
		150°	8100	165°
		7.4 NM	4.6 NM	DIGUQ
CATEGORY	A	B	C	D
CIRCLING	6780-1	552 (600-1)	6800-1½ 572 (600-1½)	6860-2 632 (700-2)

LAMON TWO DEPARTURE (RNAV) (OBSTACLE)

SALT LAKE CENTER
132.4 239.25
UNICOM 122.7 (CTAF)TAKE-OFF MINIMUMSRwy 3: Standard with minimum climb of
250' per NM to 7400.

Rwy 21: Standard.

NOTE: GPS required.

NOTE: RNAV 1

TAKE-OFF OBSTACLE NOTES

Rwy 3: Trees 1227' from DER, 343' left of centerline, 50' AGL/6266' MSL.

Trees 697' from DER, 327' right of centerline, 50' AGL/6246' MSL.

Trees 2106' from DER, 469' right of centerline, 50 AGL/6282' MSL.

Rwy 21: Building 1437' from DER, 730' left of centerline, 70' AGL/6189' MSL.

Building 52' from DER, 473' right of centerline, 50 AGL/6191' MSL.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 3: Climb heading 033° to 6700, then climbing left turn
direct LAMON. Thence....TAKE-OFF RUNWAY 21: Climb heading 213° to 6600, then climbing right turn
direct LAMON. Thence........cross LAMON at or above MEA for direction of flight. If required, continue climb
in LAMON holding pattern to cross LAMON at or above MEA for direction of flight.

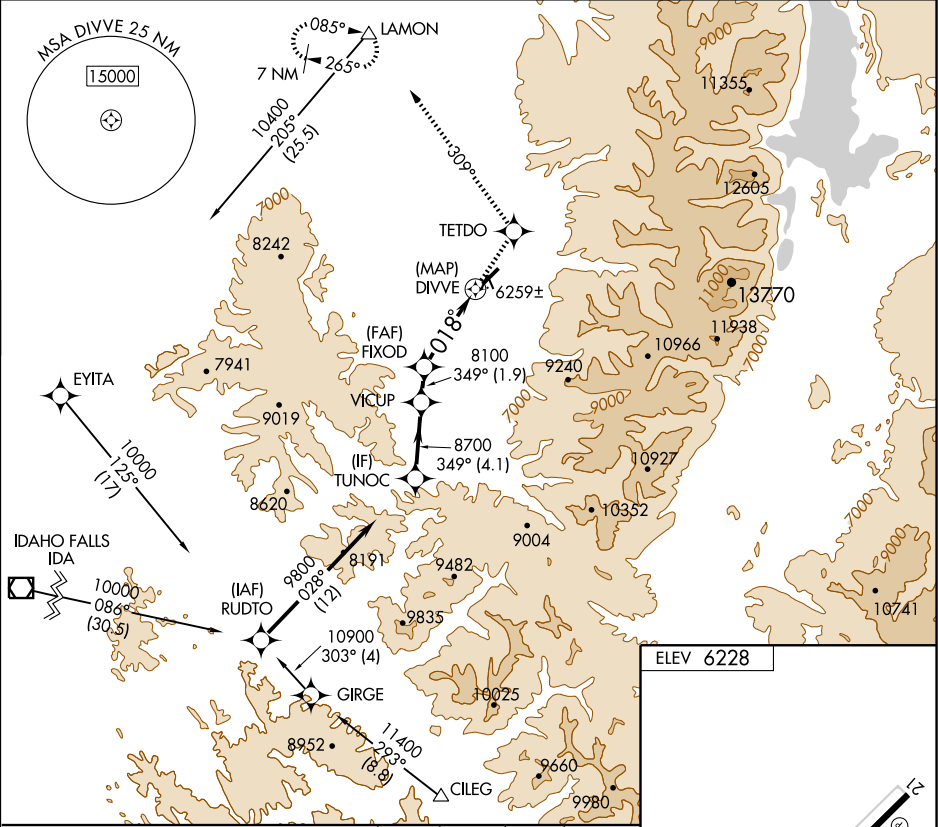
APP CRS	Rwy Idg	7302
018°	TDZE	6180
	Apt Elev	6228

RNAV (GPS) RWY 3

DRIGGS-REED MEMORIAL (DIJ)

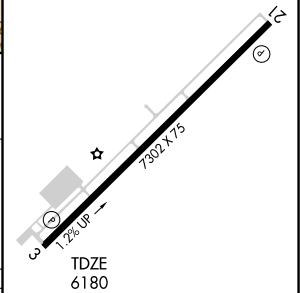
NA	DME/DME RNP-0.3 NA.	MISSED APPROACH: Climb to 9000 direct TETDO and via 309° track to LAMON and hold.
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ASOS 120.775	SALT LAKE CENTER 132.4 239.25	UNICOM 122.7 (CTAF) 0
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TUNOC	VGSI and descent angles not coincident			
	VICUP	FIXOD	9000	TETDO
Procedure Turn NA	9800	8700	8100	018°
	349°	3.29°	TCH 45	DIVVE
4.1 NM 1.9 NM 4.4 NM 0.6 0.5				
CATEGORY	A	B	C	D
LNNAV MDA	6520-1 340 (300-1)			
CIRCLING	6760-1	6780-1	6800-1½	6800-2
	532 (600-1)	552 (600-1)	572 (600-1½)	572 (600-2)

ELEV 6228



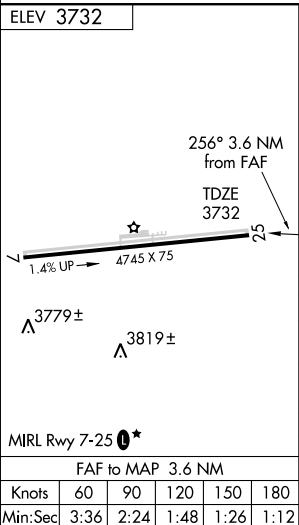
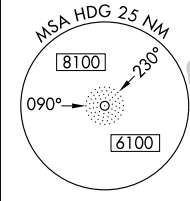
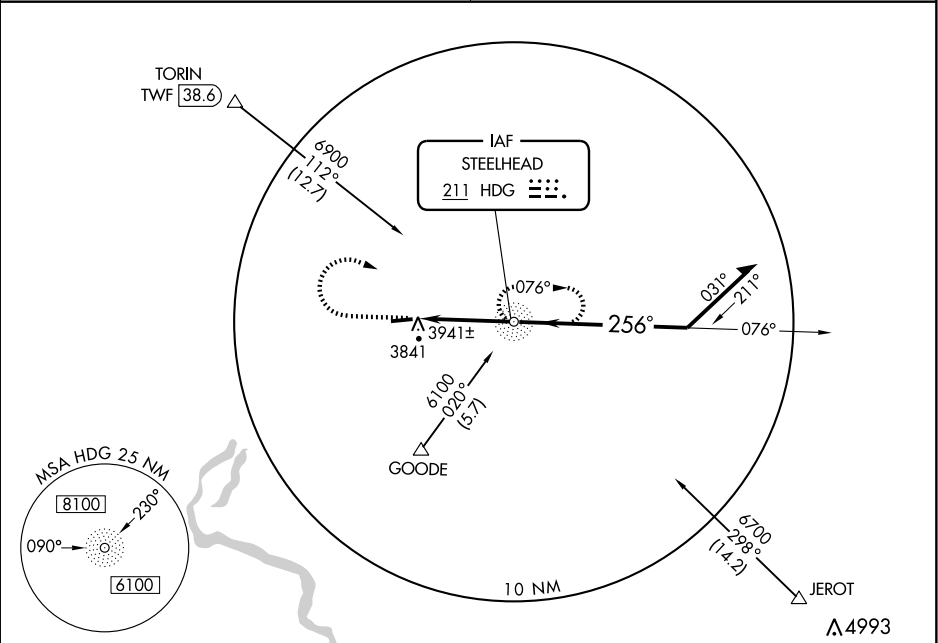
MIRL Rwy 3-21 0
REIL Rwy 21 0

NDB HDG 211	APP CRS 256°	Rwy Idg TDZE Apt Elev	4745 3732 3732
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NDB RWY 25
GOODING MUNI (GNG)

NA Visibility reduction by helicopters NA. Obtain local altimeter setting on CTAF; when not received use Jerome County altimeter setting.	MISSED APPROACH: Climb to 4700 then climbing right turn to 5600 direct HDG NDB and hold.
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SALT LAKE CENTER 118.05 363.0	UNICOM 122.8 (CTAF) 0*
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	4700	5600	HDG 211	NDB	Remain within 10 NM
				076°	6100
				256°	4900
				2.93° TCH 40	
				3.6 NM	
CATEGORY	A	B	C	D	
S-25	4260-1	528 (600-1)	4260-1½ 528 (600-1½)	4260-1¾ 528 (600-1¾)	
CIRCLING	4260-1	528 (600-1)	4260-1½ 528 (600-1½)	4300-2 568 (600-2)	
JEROME COUNTY ALTIMETER SETTING MINIMUMS					
S-25	4340-1	608 (700-1)	4340-1¾ 608 (700-1¾)	4340-2 608 (700-2)	
CIRCLING	4340-1	608 (700-1)	4340-1¾ 608 (700-1¾)	4340-2 608 (700-2)	

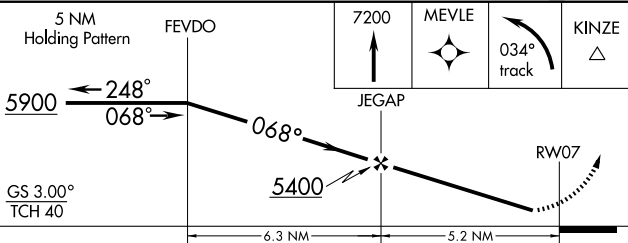
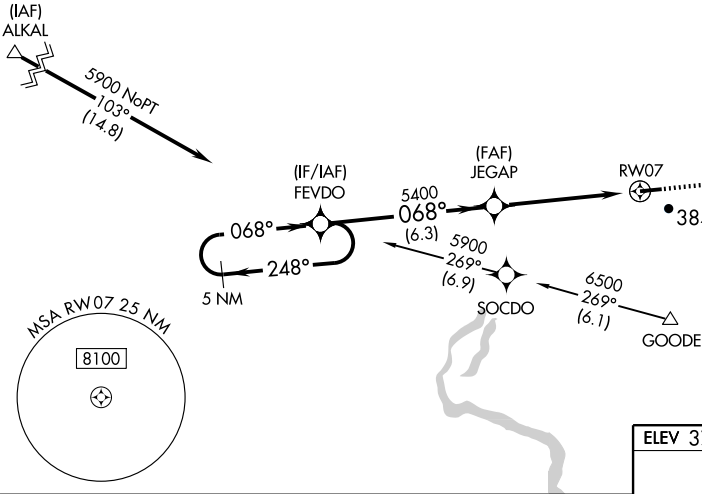
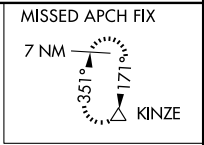
WAAS CH 53709 W07A	APP CRS 068°	Rwy ldg TDZE Apt Elev	4745 3710 3732
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T DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA.
A Baro-VNAV NA when using Jerome County altimeter setting.
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -22°C (-7°F) or above 41°C (105°F).
Obtain local altimeter setting on CTAF; when not received, use Jerome County altimeter setting and increase all DA 86 feet and all MDA 100 feet. Increase LPV visibility ¼ mile all Cats, LNAV/VNAV visibility ½ mile all Cats, LNAV visibility Cat C and D ¼ mile, and circling visibility Cat C ¼ mile.

MISSED APPROACH: Climb to 7200 direct MEVLE and left turn via 034° track to KINZE and hold.

SALT LAKE CENTER 118.05 363.0	UNICOM 122.8 (CTAF) 0*
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Procedure NA for arrivals at GOODE via V4 eastbound and V293 southeast bound.
Procedure NA for arrivals at ALKAL via V253 northwest bound.
Procedure NA for arrivals at ALKAL via V330 southwest bound.



ELEV 3732

3779±

3819±

MIRL Rwy 7-25 0*

CATEGORY	A	B	C	D
LPV DA	3960-1 250 (300-1)			
LNAV/VNAV DA	4049-1¼ 339 (400-1¼)			
LNAV MDA	4120-1	410 (400-1)	4120-1¼	410 (400-1¼)
CIRCLING	4260-1	528 (600-1)	4260-1½	4300-2
			528 (600-1½)	568 (600-2)

T

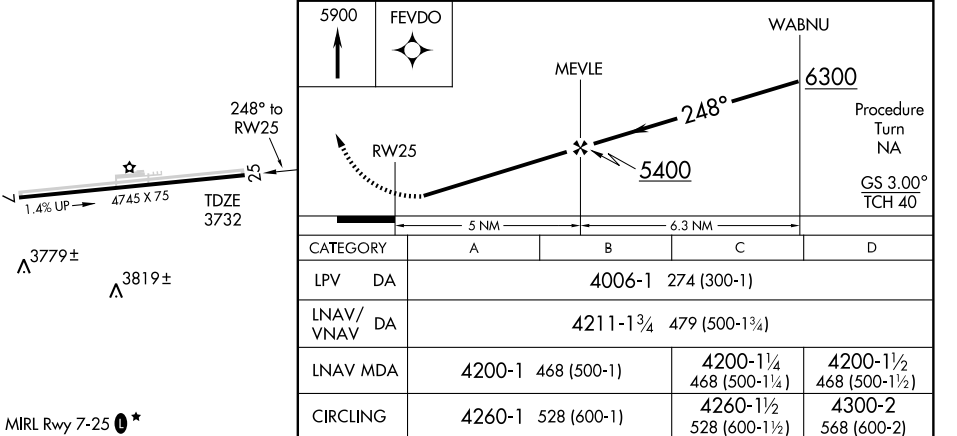
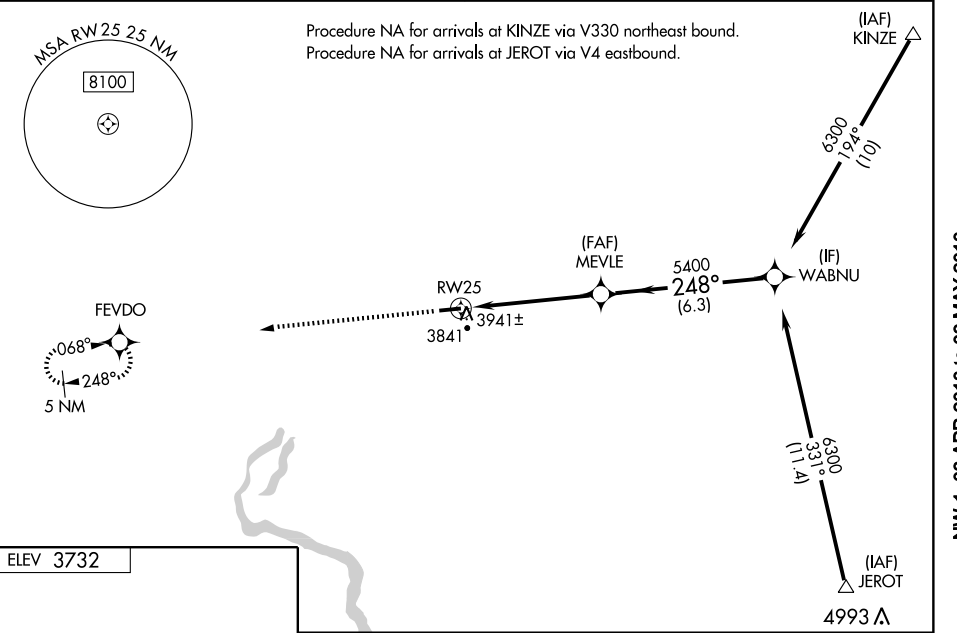
A

DME/DME RNP- 0.3 NA. Visibility reduction by helicopters NA.
Baro-VNAV NA when using Jerome County altimeter setting.
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -22°C (-7°F) or above 41°C (105°F).
Obtain local altimeter setting on CTAF; when not received, use Jerome County altimeter setting and increase all DA 86 feet and all MDA 100 feet. Increase LPV visibility ¼ mile all Cats, LNAV/VNAV visibility ¼ mile all Cats, LNAV visibility Cat C and D ½ mile, and circling visibility Cat C ½ mile.

MISSED APPROACH: Climb to 5900 direct FEVDO and hold.

SALT LAKE CENTER
118.05 363.0

UNICOM
122.8 (CTAF) 0*



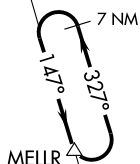
MIRL Rwy 7-25 0*

NW-1. 08 APR 2010 to 06 MAY 2010

(MELLR) 08157 SL-9060 (FAA)
MELLR ONE DEPARTURE (RNAV) (OBSTACLE)

GRANGEVILLE/IDAHO COUNTY (S80)
GRANGEVILLE, IDAHO

SEATTLE CENTER
123.95 282.3



TAKE-OFF OBSTACLE NOTES

Rwy 25: Equipment 61' from DER, 161' right of centerline, 7' AGL/3291' MSL.
Vehicles on road beginning 251' from DER, 134' right of centerline, up to 15' AGL/3292' MSL.

TAKE-OFF MINIMUMS

Rwy 7: NA - Obstacles.
Rwy 25: Standard.



NOTE: GPS Required.

NOTE: RNAV 1

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION



TAKE-OFF RUNWAY 25: Climb direct FIDIT then via depicted route to MELLR.

Maintain 7400 or assigned altitude. Aircraft southeast bound on V253 continue climb in MELLR holding pattern to MEA before proceeding enroute.

APP CRS 073°	Rwy Idg TDZE Apt Elev	5001 3302 3314
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RNAV (GPS) RWY 7

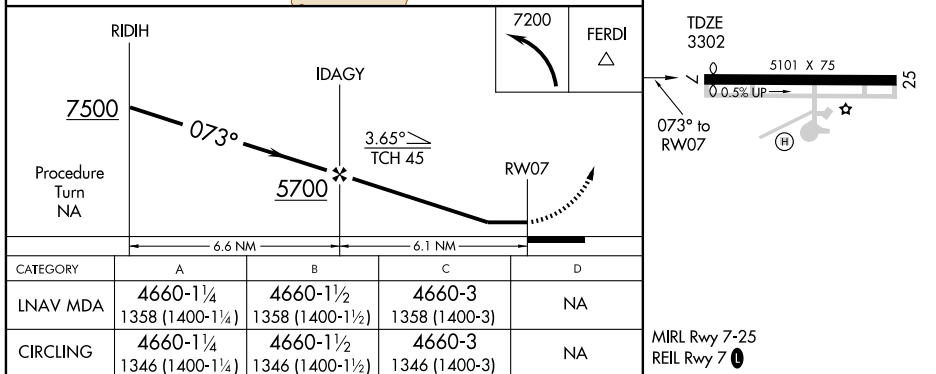
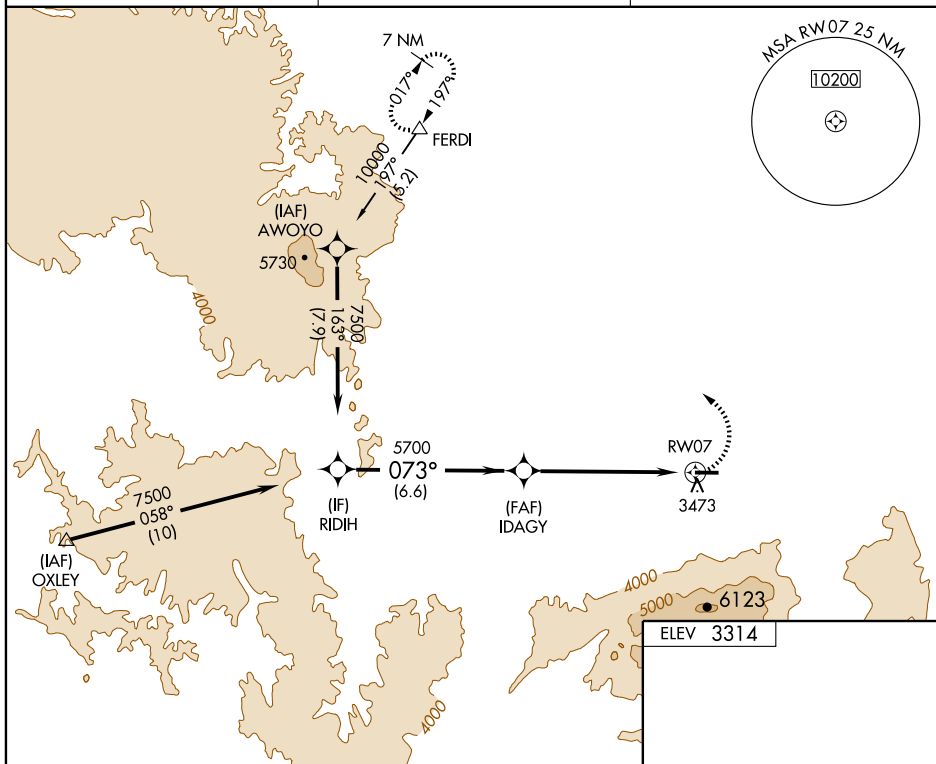
GRANGEVILLE/IDAHO COUNTY (S80)

	<p>Circling NA south of Rwy 7-25.</p>
 NA	<p>DME/DME RNP-0.3 NA.</p> <p>Visibility reduction by helicopters NA.</p> <p>Use Lewiston-Nez Perce County altimeter setting; when not received, use Pullman/Moscow Rgnl altimeter setting and increase all MDA 40 feet.</p>

MISSED APPROACH: Climbing left turn to 7200 direct FERDI and hold.

LEWISTON-NEZ PERCE COUNTY ASOS
135,575

SEATTLE CENTER
123.95 282.3

CTAF
122.9 

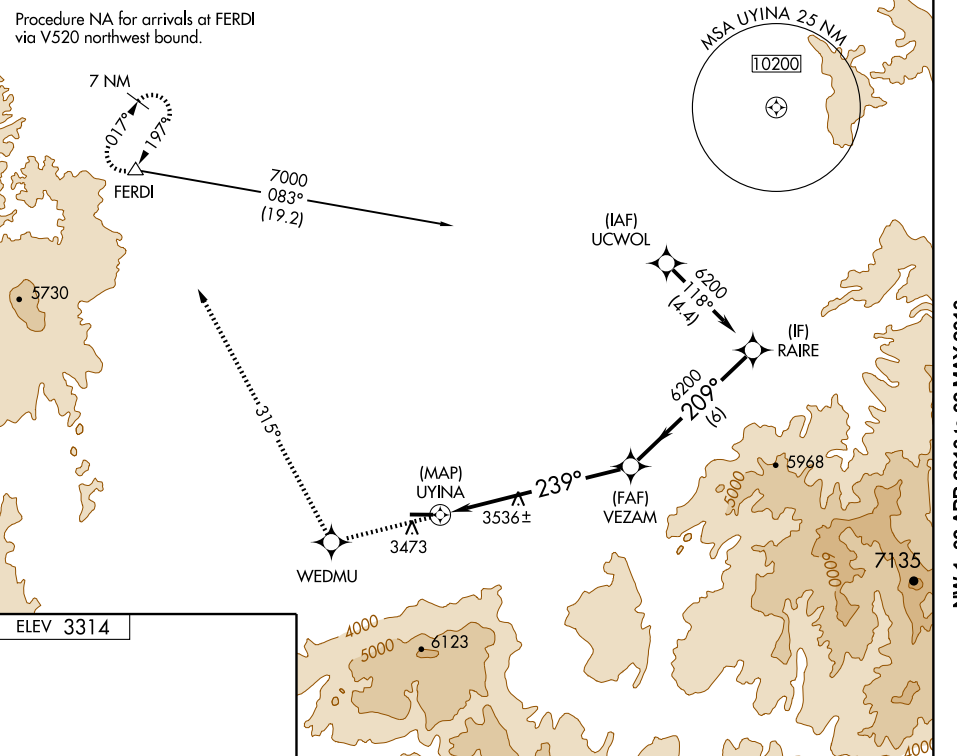
NA

NA

Circling NA south of Rwy 7-25.
DME/DME RNP-0.3 NA.
Use Lewiston-Nez Perce County altimeter setting; when not received,
use Pullman/Moscow Rgnl altimeter setting and increase all MDA 40 feet.

MISSED APPROACH: Climb to 7200 direct WEDMU and via 315° track to FERDI and hold, continue climb-in-hold to 7200.

LEWISTON-NEZ PERCE COUNTY ASOS 135.575	SEATTLE CENTER 123.95 282.3	CTAF 122.9 0
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ELEV 3314

TDZE 3314

5101 X 75

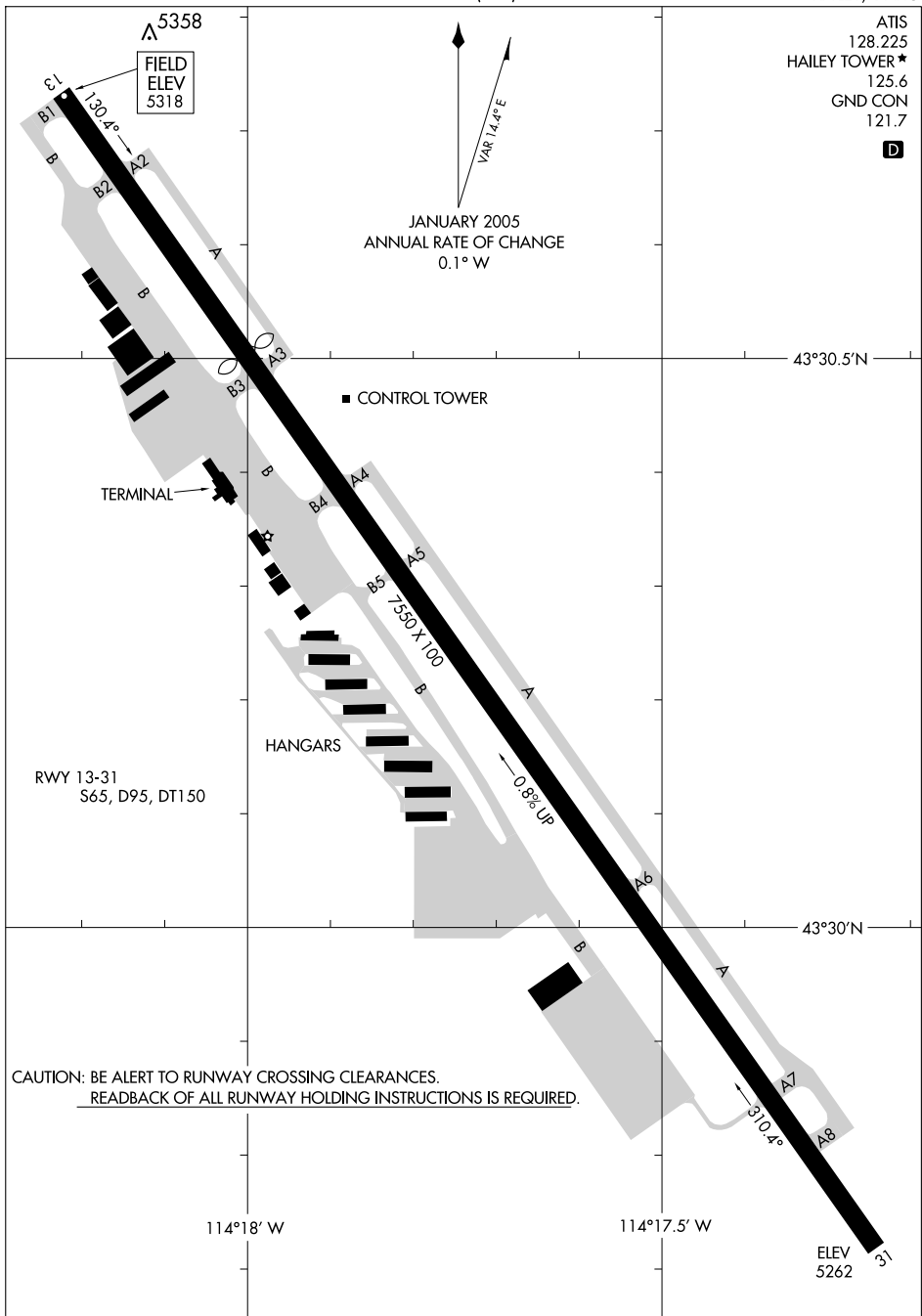
0.5% UP

7200	WEDMU	315° track	FERDI	VEZAM	RAIRE
↑	✧	△			
CATEGORY	A	B	C	D	
LNAV MDA	4720-1¼ 1406 (1500-1¼)	4720-1½ 1406 (1500-1½)	4720-3 1406 (1500-3)	NA	
CIRCLING	4720-1¼ 1406 (1500-1¼)	4720-1½ 1406 (1500-1½)	4720-3 1406 (1500-3)	NA	

AIRPORT DIAGRAM

HAILEY / FRIEDMAN MEMORIAL (SUN)

HAILEY, IDAHO



NW-1, 08 APR 2010 to 06 MAY 2010

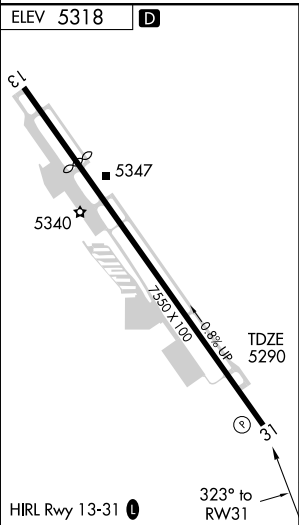
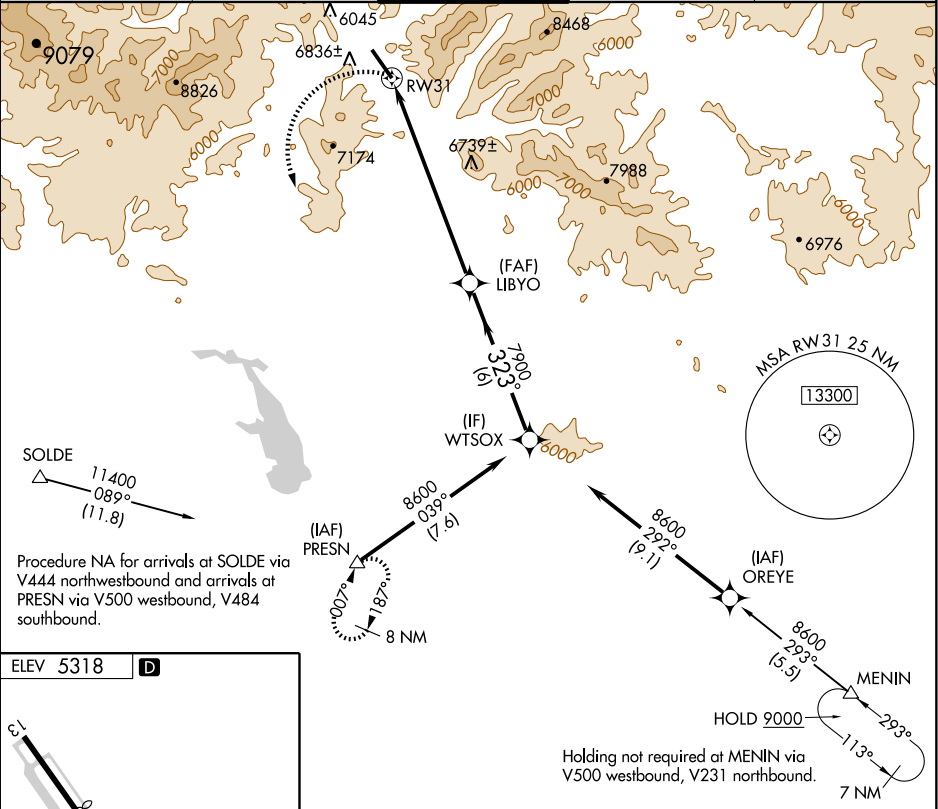
APP CRS	Rwy Idg	6631
323°	TDZE	5290
	Apt Elev	5318


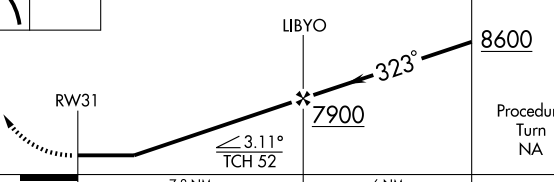
RNAV (GPS) W RWY 31

HAILEY/FRIEDMAN MEMORIAL (SUN)

	Circling NA at night. Circling NA east of Rwy 13-31. DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA.	MISSED APPROACH: Climbing left turn to 8700 direct PRESN and hold. When authorized by ATC, climb-in-hold to 12500.
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ATIS 128.225	SALT LAKE CENTER 118.05 353.0	HAILEY TOWER★ 125.6 (CTAF) 0	GND CON 121.7	UNICOM 122.95
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8700	PRESN	VGSI and descent angles not coincident.		
				
				
CATEGORY	A	B	C	D
LNAV MDA	7080-1¼ 1790 (1800-1¼)	7080-1½ 1790 (1800-1½)	7080-3 1790 (1800-3)	NA
CIRCLING	7180-1¼ 1862 (1900-1¼)	7180-1½ 1862 (1900-1½)	7180-3 1862 (1900-3)	NA

APP CRS	Rwy Idg	6631
314°	TDZE	5290
	Apt Elev	5318

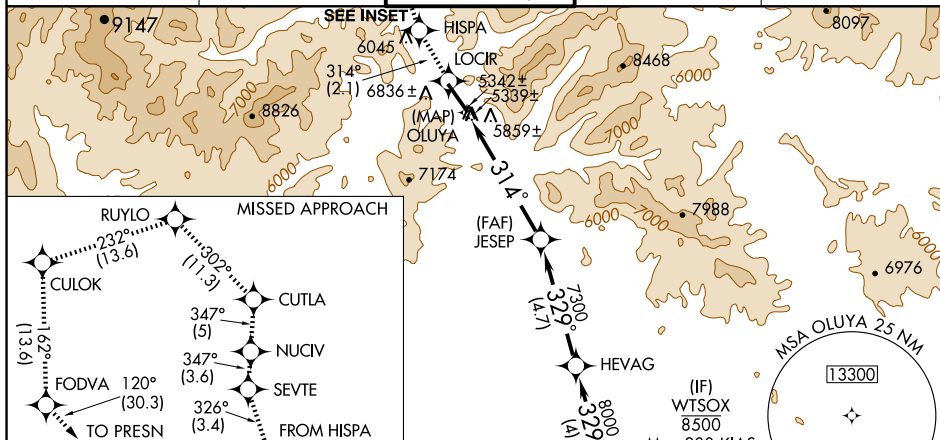
RNAV (RNP) Y RWY 31

HAILEY/FRIEDMAN MEMORIAL (SUN)

T GPS required. When VGSi inoperative, procedure NA at night.
Δ NA For uncompensated Baro-VNAV systems, procedure NA below -25°C (-14°F) or above 37°C (99°F).
 Missed approach requires RNP less than 1.0 and minimum climb of 330 feet per NM to 14500. Visibility reduction by helicopters NA.
 Final approach course offset 5.00°.

MISSED APPROACH: Climb to 15000 via 314° track to LOCIR, 314° track to HISPA, 326° track to SEVTE, 347° track to NUCIV, 347° track to CUTLA, 302° track to RUYLO, 232° track to CULOK, 162° track to FODVA, 120° track to PRESN and hold.

ATIS 128.225	SALT LAKE CENTER 118.05 353.0	HAILEY TOWER★ 125.6 (CTAF) 0	GND CON 121.7	UNICOM 122.95
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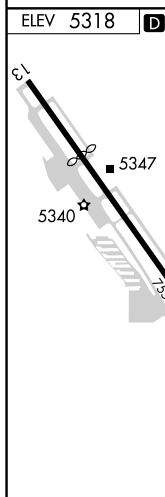


(RNP 0.60) (IAF) SOLDE 17200
 SOLDE: Procedure NA V101 SW Bnd; V444 NW Bnd
 11400 089° (11.8)

(RNP 0.60) (IAF) PRESN 11700
 11400
 Max 230 KIAS
 089°
 269°
 8 NM
 PRESN: Procedure NA V500 W Bnd; V484 S Bnd

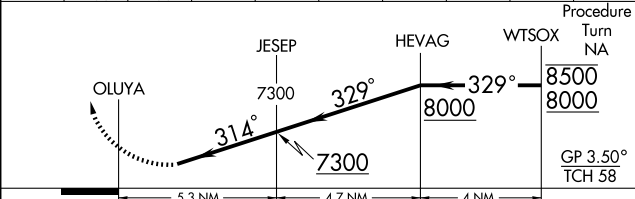
REAPS: Procedure NA V500 E Bnd; V101 SE Bnd
 (RNP 0.60) (IAF) REAPS 10500

MENIN: Procedure NA V500 E Bnd; V231 S Bnd
 (RNP 0.60) (IAF) MENIN 12500



HIRL Rwy 13-31 0

	15000	LOCIR	HISPA	SEVTE	NUCIV	CUTLA	RUYLO	CULOK	FODVA	PRESN
		314° track	314° track	326° track	347° track	347° track	302° track	232° track	162° track	120° track



CATEGORY	A	B	C	D
RNP 0.30 DA	6264-3	974 (1000-3)		NA

SPECIAL AIRCRAFT & AIRCREW AUTHORIZATION REQUIRED

AIRPORT DIAGRAM

AL-590 (FAA)

IDAHO FALLS RGNL (IDA)
IDAHO FALLS, IDAHO

ATIS
135.325
IDAHO FALLS TOWER ★
118.5 257.8
GND CON
121.7
CLINC DEL
121.7

VAR 13.6°E
JANUARY 2005
ANNUAL RATE OF CHANGE
0.1°W

43°31'N

FIELD
ELEV
4744

9002 X 150

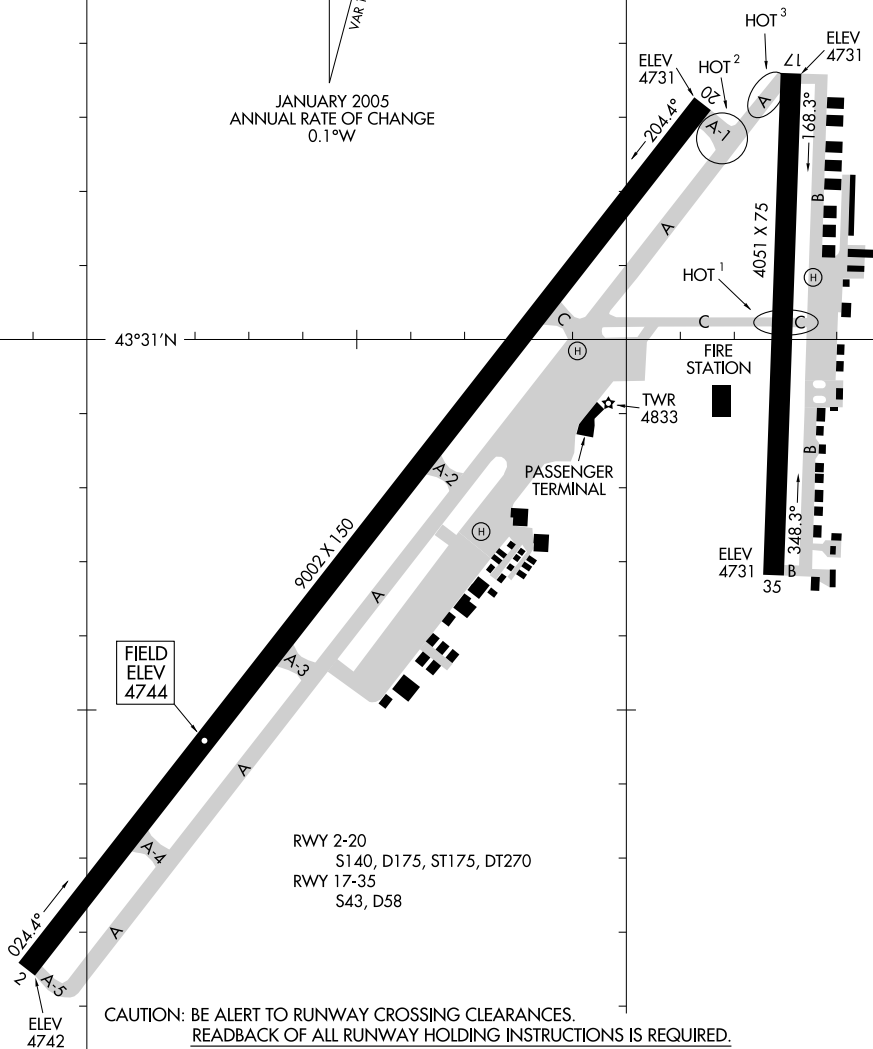
RWY 2-20
S140, D175, ST175, DT270
RWY 17-35
S43, D58

CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

43°30'N

112°05'W

112°04'W



NW-1, 08 APR 2010 to 06 MAY 2010

LOC/DME HDA	APP CRS	Rwy Idg	9002
111.1	203°	TDZE	4735
Chan 48		Apt Elev	4744

Visibility CAT A/B/C/D, RVR 1800 authorized with the use of FD or AP or HUD to DA.

MALS

AS

MISSED APPROACH: Climb to 7000, then right turn direct IDA VOR/DME and hold.

ATIS	SALT LAKE CENTER	IDAHO FALLS TOWER★	GND CON	UNICOM
135.325	128.35 239.25	118.5 (CTAF) 0 257.8	121.7	122.95

CATEGORY	A	B	C	D	E
S-ILS 20	*4935/24 200 (200-½)				
S-LOC 20	5140/24 405 (400-½)		5140/40 405 (400-¾)		5140/50 405 (400-1)
CIRCLING	5200-1 456 (500-1)	5220-1 476 (500-1)	5260-1½ 516 (600-1½)	5340-2 596 (600-2)	5420-2½ 676 (700-2½)

FAF to MAP 5.8 NM

Knots	60	90	120	150	180
Min:Sec	5:48	3:52	2:54	2:19	1:56

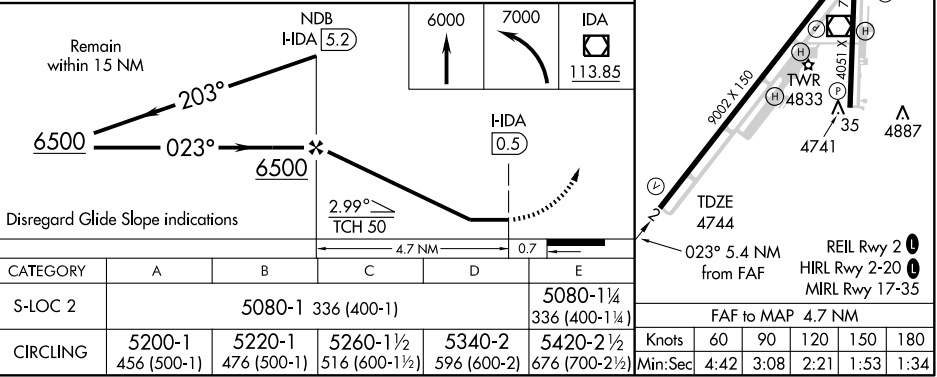
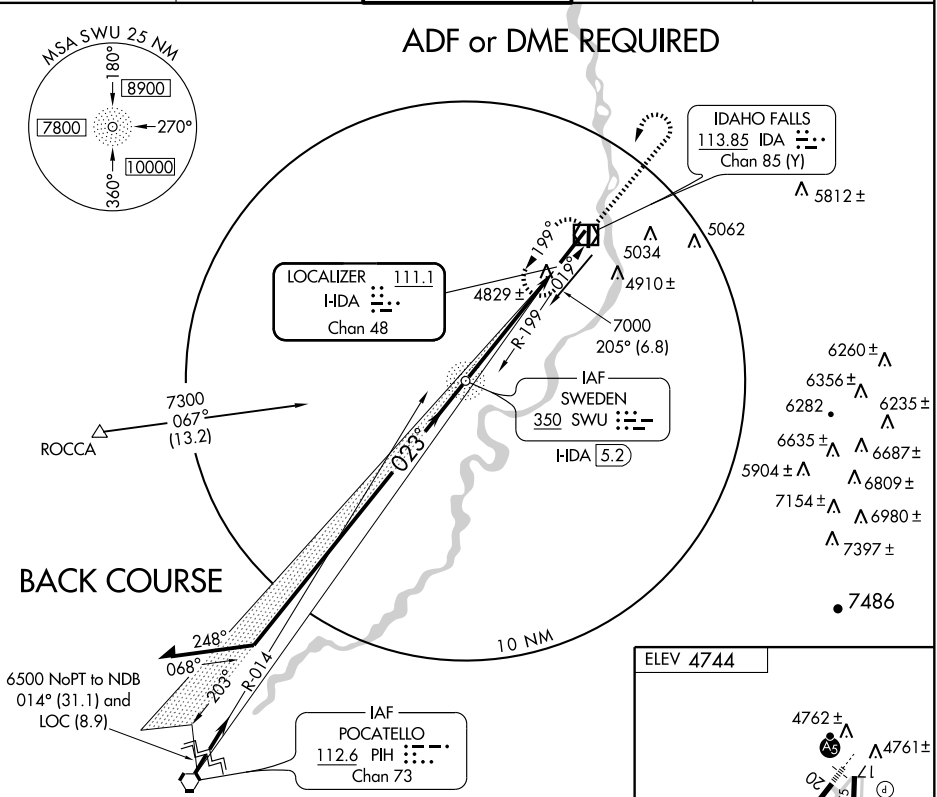
NW-1. 08 APR 2010 to 06 MAY 2010

⚠

⚠

MISSED APPROACH: Climb to 6000 then climbing left turn to 7000 direct IDA VOR/DME and hold.

ATIS 135.325	SALT LAKE CENTER 128.35 239.25	IDAHO FALLS TOWER★ 118.5 (CTAF) 0 257.8	GND CON 121.7	UNICOM 122.95
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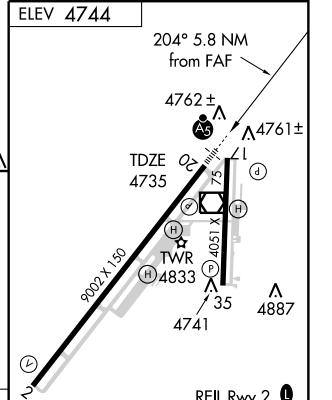
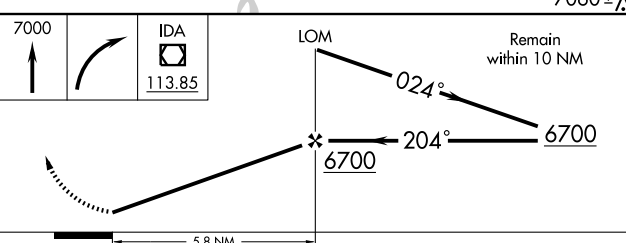
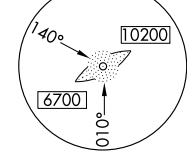
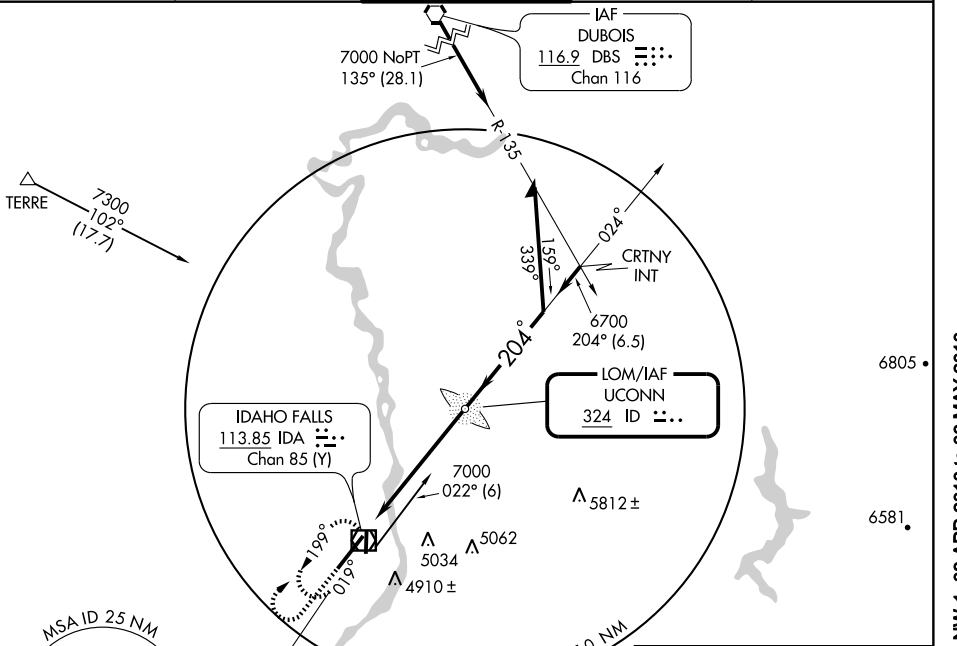


NW-1, 08 APR 2010 to 06 MAY 2010

MALSR

MISSED APPROACH: Climb to 7000 then right turn direct IDA VOR/DME and hold.

ATIS 135.325	SALT LAKE CENTER 128.35 239.25	IDAHO FALLS TOWER★ 118.5 (CTAF) 257.8	GND CON 121.7	UNICOM 122.95
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CATEGORY	A	B	C	D	HIREL Rwy 2-20 MIRL Rwy 17-35					
S-20	5220/40 485 (500-¾)			5220/60 485 (500-1¼)	FAF to MAP 5.8 NM					
CIRCLING	5220-1 476 (500-1)		5260-1½ 516 (600-1½)	5340-2 596 (600-2)	Knots	60	90	120	150	180
					Min:Sec	5:48	3:52	2:54	2:19	1:56

NW-1. 08 APR 2010 to 06 MAY 2010

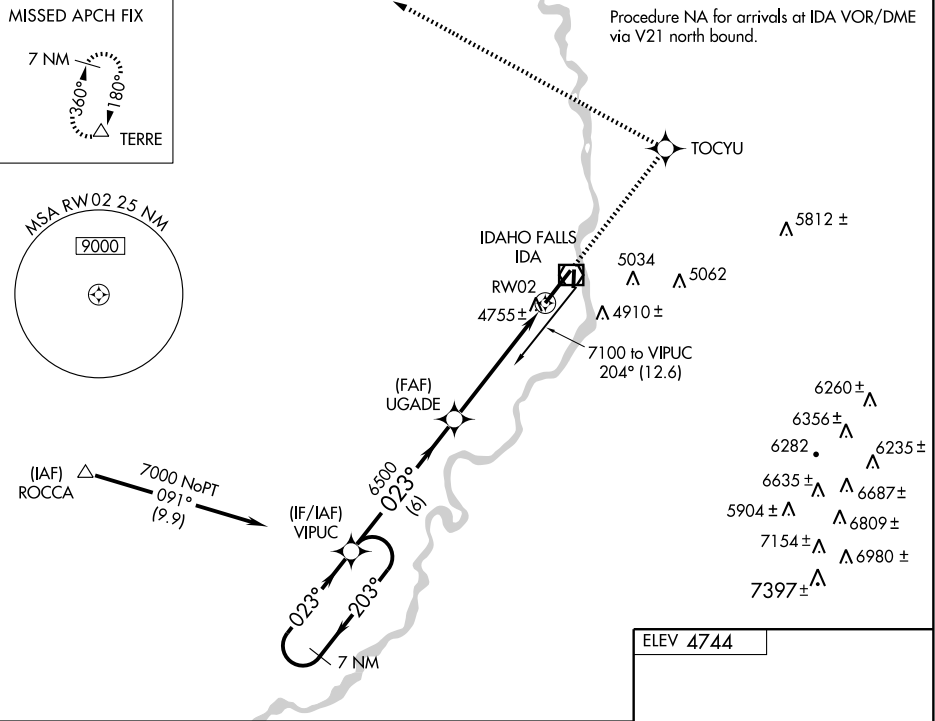
WAAS CH 97501 W02A	APP CRS 023°	Rwy Idg 9002 TDZE 4744 Apt Elev 4744
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RNAV (GPS) RWY 2
IDAHO FALLS RGNL (IDA)

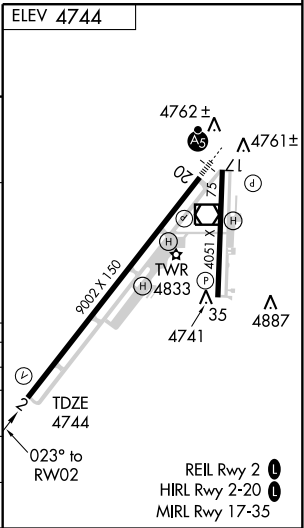
▼ DME/DME RNP-0.3 NA.
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below
-24°C (-11°F) or above 39°C (103°F).
When VGSI inoperative, circling Rwy 35 NA at night.

MISSED APPROACH: Climb to 7500 direct TOCYU and
left turn via 284° track to TERRE and hold.

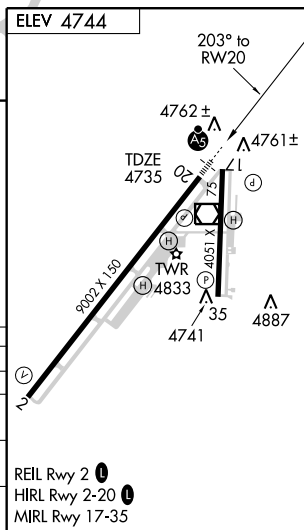
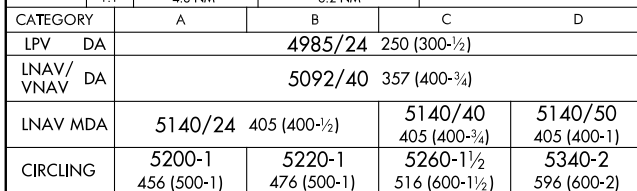
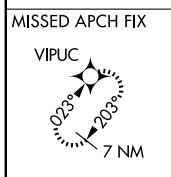
ATIS 135.325	SALT LAKE CENTER 128.35 239.25	IDAHO FALLS TOWER★ 118.5 (CTAF) 0 257.8	GND CON 121.7	UNICOM 122.95
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7 NM Holding Pattern		VIPUC	7500	TOCYU	TERRE
7000		203°	023°	284° track	△
GS 3.00° TCH 50		023°	UGADE	*1 NM to RWY 2	*LNAV only
		6500	6 NM	4.3 NM	1 NM
CATEGORY	A	B	C	D	
LPV DA	4994-3/4		250 (300-3/4)		
LNAV/VNAV DA	5135-1/4		391 (400-1/4)		
LNAV MDA	5100-1		356 (400-1)		5100-1/4 356 (400-1/4)
CIRCLING	5200-1 456 (500-1)	5220-1 476 (500-1)	5260-1 1/2 516 (600-1 1/2)	5340-2 596 (600-2)	



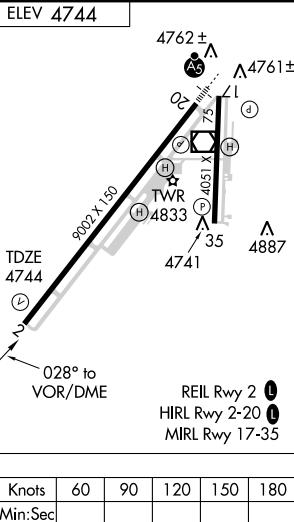
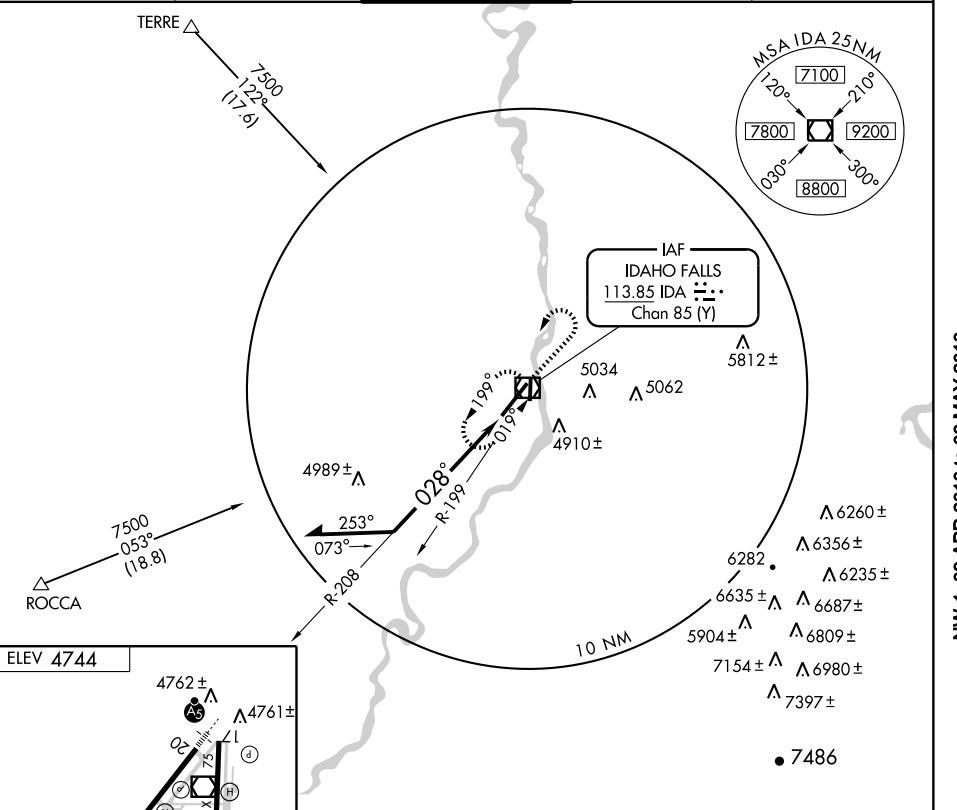
ATIS 135.325	SALT LAKE CENTER 128.35 239.25	IDAHO FALLS TOWER * 118.5 (CTAF) 0 257.8	GND CON 121.7	UNICOM 122.95
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UNICOM
122.95

▼

MISSED APPROACH: Climb to 6000 then climbing left turn to 7000 direct IDA VOR/DME and hold.

ATIS 135.325	SALT LAKE CENTER 128.35 239.25	IDAHO FALLS TOWER ★ 118.5 (CTAF) 0 257.8	GND CON 121.7	UNICOM 122.95
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Remain within 10 NM		VOR/DME	6000	7000	IDA 113.85
6500		208°	↑	↶	
		028°			
CATEGORY	A	B	C	D	
S-2	5300-1	556 (600-1)	5300-1½ 556 (600-1½)	5300-1¾ 556 (600-1¾)	
CIRCLING	5300-1	556 (600-1)	5300-1½ 556 (600-1½)	5340-2 596 (600-2)	

NW-1. 08 APR 2010 to 06 MAY 2010

⚠ When local altimeter setting not received, use Rexburg-Madison County altimeter setting and increase all MDA 80 feet and increase all Cat B visibilities ¼ mile and increase all Cat C and D visibilities ½ mile.

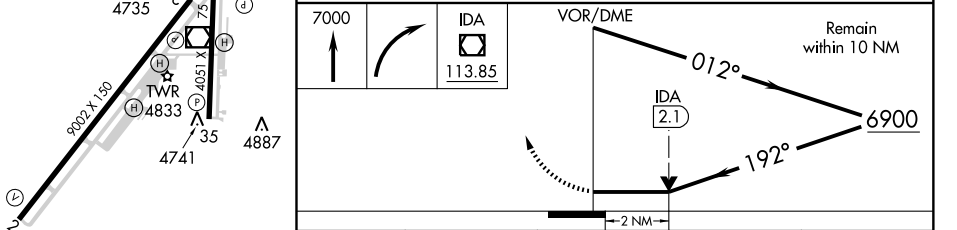
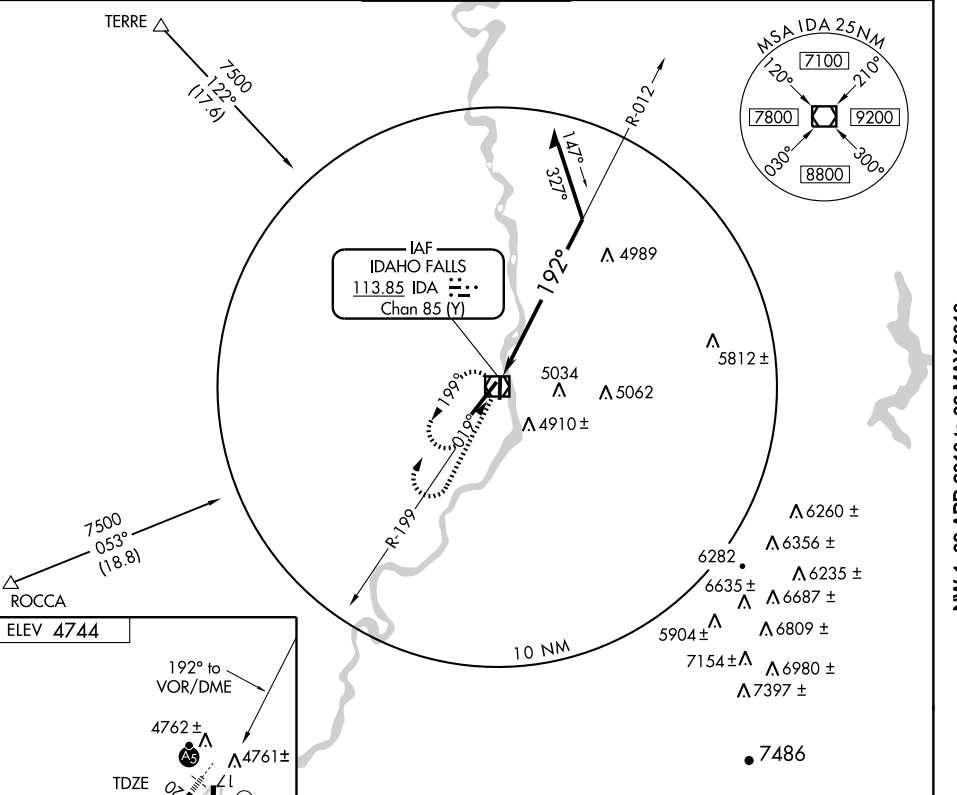
⚠ When VGSI inoperative, circling Rwy 35 NA at night.

VDP NA when using Rexburg-Madison County altimeter setting.

MALSR

MISSED APPROACH: Climb to 7000 then right turn direct IDA VOR/DME and hold.

ATIS 135.325	SALT LAKE CENTER 128.35 239.25	IDAHO FALLS TOWER★ 118.5 (CTAF) 0 257.8	GND CON 121.7	UNICOM 122.95
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CATEGORY	A	B	C	D
S-20	5400/24 665 (700-½)		5400/60 665 (700-1¼)	5400-1½ 665 (700-1½)
CIRCLING	5400-1 656 (700-1)		5400-1¾ 656 (700-1¾)	5400-2 656 (700-2)

REIL Rwy 2 0
HIRL Rwy 2-20 0
MIRL Rwy 17-35

NW-1. 08 APR 2010 to 06 MAY 2010

APP CRS
086°

Rwy Idg
TDZE
Apt Elev

5001
4019
4053

RNAV (GPS) RWY 9

JEROME COUNTY (JER)

▼

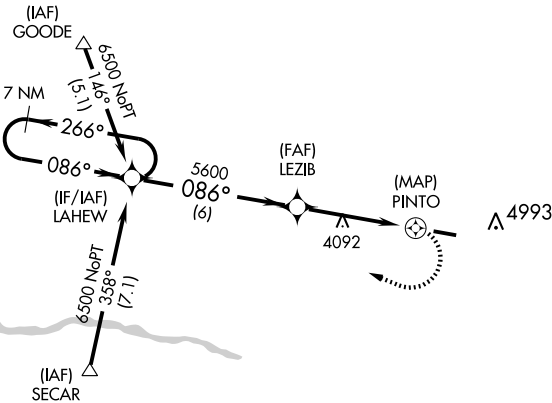
▲

Circling NA north of Rwy 9-27. DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. When local altimeter setting not received, use Twin Falls altimeter setting and increase all MDA 60 feet, and increase LNAV Cat. D visibility ¼ mile.

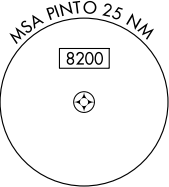
MISSED APPROACH:
Climbing right turn to 6500
direct LAHEW and hold.

ASOS 135.225	TWIN FALLS APP CON ★ 126.7 353.75	SALT LAKE CENTER 118.05 363.0	UNICOM 122.8 (CTAF) 0
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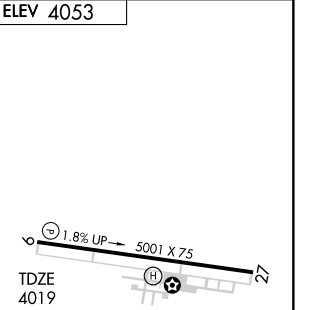
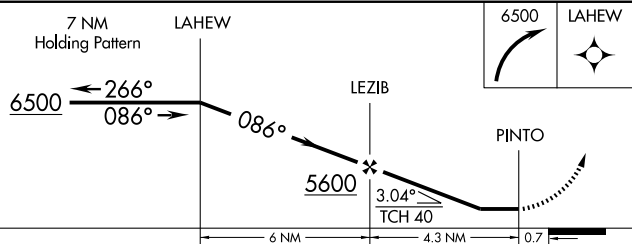
Procedure NA for arrivals at GOODE
via V4 northwest bound and V293
northwest bound.



Procedure NA for arrivals at SECAR
via V253 southeast bound.



ELEV 4053



CATEGORY	A	B	C	D
LNAV MDA	4420-1 401 (400-1)	4420-1¼ 401 (400-1¼)	4420-1¼ 401 (400-1¼)	4420-1¼ 401 (400-1¼)
CIRCLING	4480-1 427 (500-1)	4560-1 507 (600-1)	4560-1½ 507 (600-1½)	4620-2 567 (700-2)

MRL Rwy 9-27 **0**

WAAS CH 90514 W27A	APP CRS 266°	Rwy Idg TDZE Apt Elev	5001 4053 4053
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RNAV (GPS) RWY 27

JEROME COUNTY (JER)

Circling NA north of Rwy 9-27. DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. When local altimeter setting not received, use Twin Falls altimeter setting and increase all DA 49 feet, and all MDA 60, and increase LPV all Cats. visibility ¼ mile.

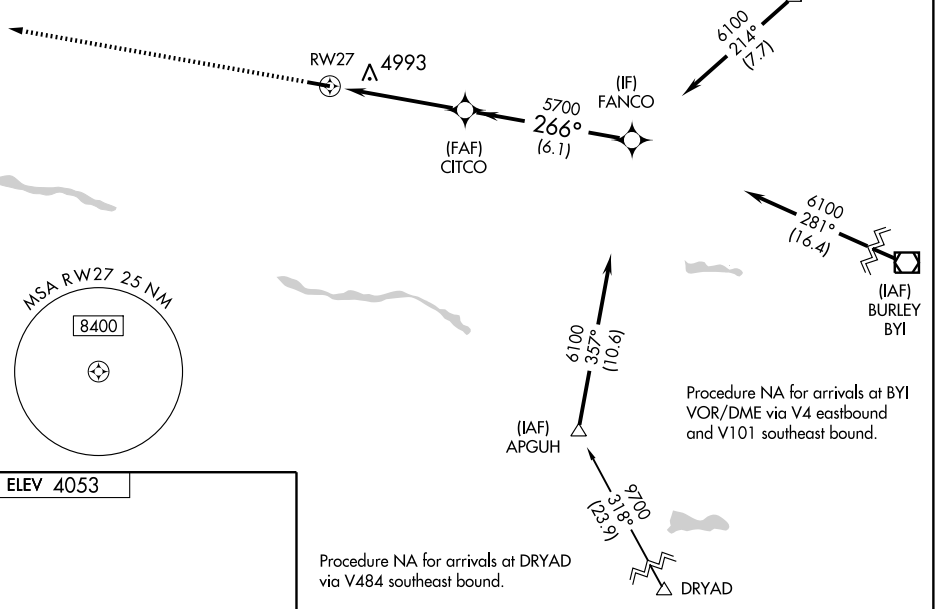
MISSED APPROACH:
Climb to 6500 direct LAHEW and hold.

ASOS 135.225	TWIN FALLS APP CON ★ 126.7 353.75	SALT LAKE CENTER 118.05 363.0	UNICOM 122.8 (CTAF) 0
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MISSED APCH FIX

7 NM

LAHEW



ELEV 4053

TDZE 4053

266° to RWY 27

MIRL Rwy 8-26 **0**

6500	LAHEW				
		RWY 27	CITCO	FANCO	
		4.9 NM	6.1 NM	6100	Procedure Turn NA
CATEGORY	A	B	C	D	
LPV DA	4434-1¼ 381 (400-1¼)				
LNAV MDA	5300-1¼ 1247 (1300-1¼)	5300-1½ 1247 (1300-1½)	5300-3	1247 (1300-3)	
CIRCLING	5300-1¼ 1247 (1300-1¼)	5300-1½ 1247 (1300-1½)	5300-3	1247 (1300-3)	

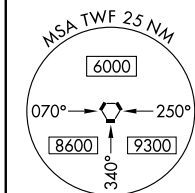
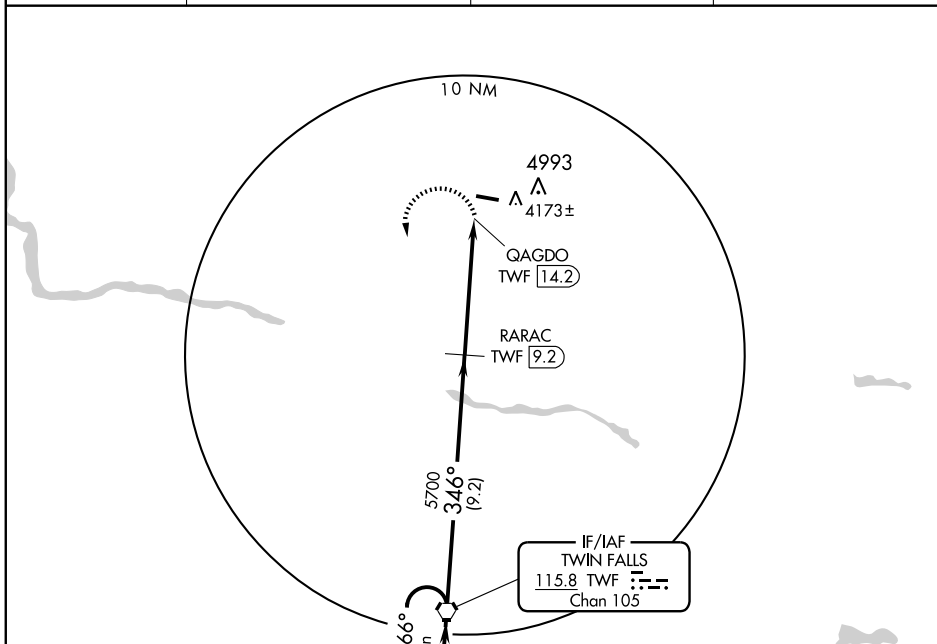
VORTAC TWF 115.8 Chan 105	APP CRS 346°	Rwy Idg TDZE Apt Elev N/A N/A 4053
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VOR/DME-A
JEROME COUNTY (JER)

⚠ Circling NA north of Rwy 9-27. When local altimeter setting not received, use Twin Falls altimeter setting and increase all MDA 60 feet.

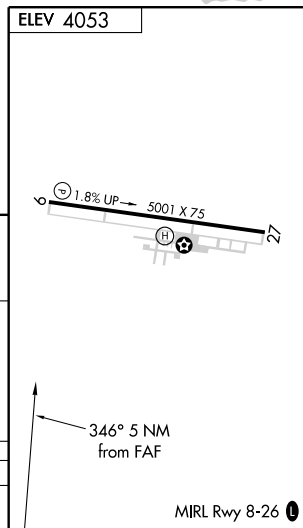
MISSED APPROACH: Climbing left turn to 8000 direct TWF VORTAC and hold, continue climb-in-hold to 8000.

ASOS 135.225	TWIN FALLS APP CON ★ 126.7 353.75	SALT LAKE CENTER 118.05 363.0	UNICOM 122.8 (CTAF) ①
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NoPT for arrival on TWF VORTAC via V142 westbound and V269 southwest bound and V293 northbound.

One Minute Holding Pattern	VORTAC			
CATEGORY	A	B	C	D
CIRCLING	4580-1	527 (600-1)	4580-1½ 527 (600-1½)	4620-2 567 (600-2)



AIRPORT DIAGRAM

AL-515 (FAA)

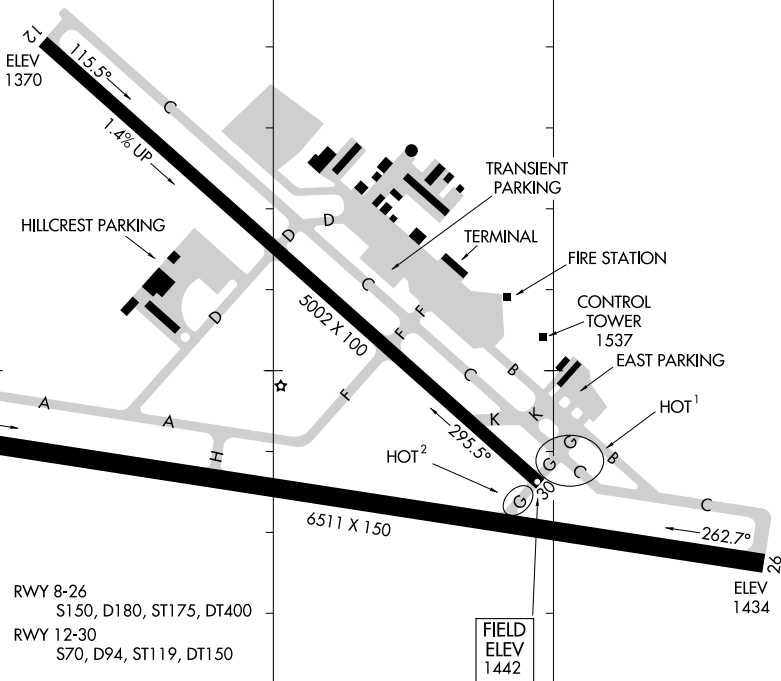
LEWISTON-NEZ PERCE COUNTY (LWS)

LEWISTON, IDAHO

ASOS
135.575
LEWISTON TOWER★
119.4 318.8
GND CON
121.9

JANUARY 2005
ANNUAL RATE OF CHANGE
0.2° W

46°23'N



CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

117° 01.5'W

117° 01.0'W

117° 00.5'W

NW-1, 08 APR 2010 to 06 MAY 2010

LOC I-LWS <u>109.7</u>	APP CRS 264°	Rwy Idg 6511 TDZE 1442 Apt Elev 1442
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ILS RWY 26

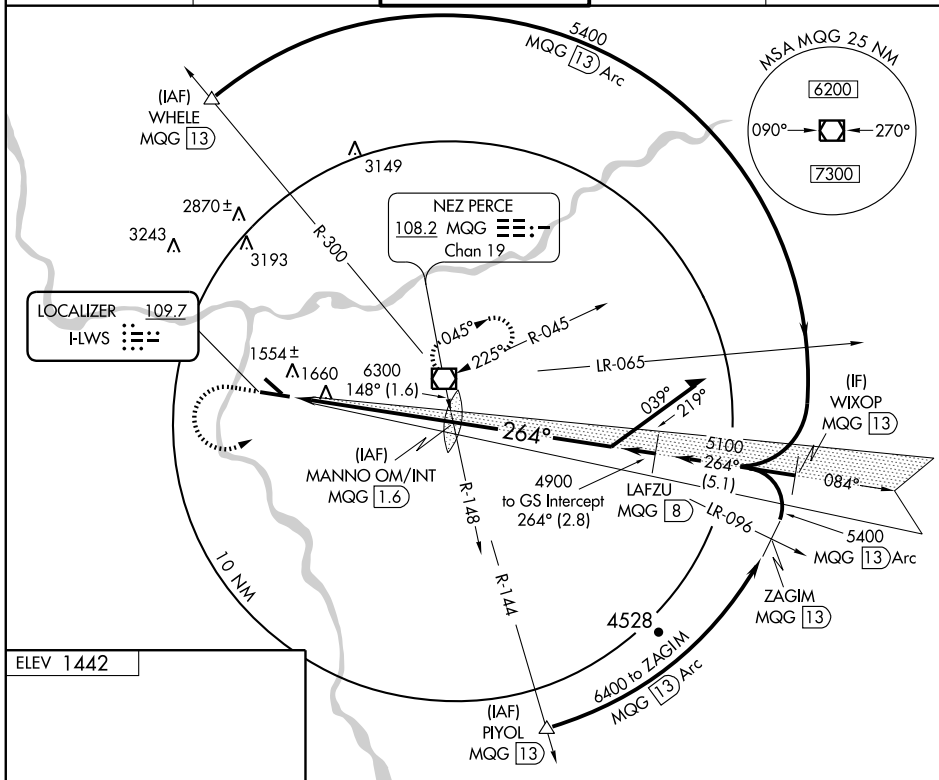
LEWISTON-NEZ PERCE COUNTY (LWS)

- T** When local altimeter setting not received, procedure NA.
A Autopilot coupled approach NA below 2500.
 Circling requires descent on GS to CMDA.

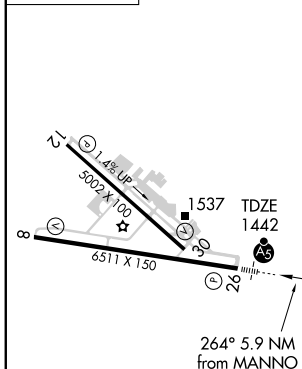
MALSR
A5

MISSED APPROACH: Climb to 3000 then climbing left turn to 5300 direct MQG VOR/DME and hold, continue climb-in-hold to 5300.

ASOS 135.575	SEATTLE CENTER 123.95 282.3	LEWISTON TOWER* 119.4 (CTAF) 0 318.8	GND CON 121.9	UNICOM 122.95
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ELEV 1442



3000 ↑	5300 ↖	MQG □ 108.2	MANNO OM/INT MQG 1.6		Remain within 10 NM
			10000 3391 084° 5400 264° 4900 GS 3.00° TCH 51		
CATEGORY	A	B	C	D	
S-ILS 26	1642-½ 200 (200-½)				
CIRCLING	1900-1 458 (500-1)	1920-1 478 (500-1)	1960-1½ 518 (600-1½)	2160-2¼ 718 (800-2¼)	

REIL Rwy 8 and 12 **L**

HIRL Rwy 8-26

MIRL Rwy 12-30

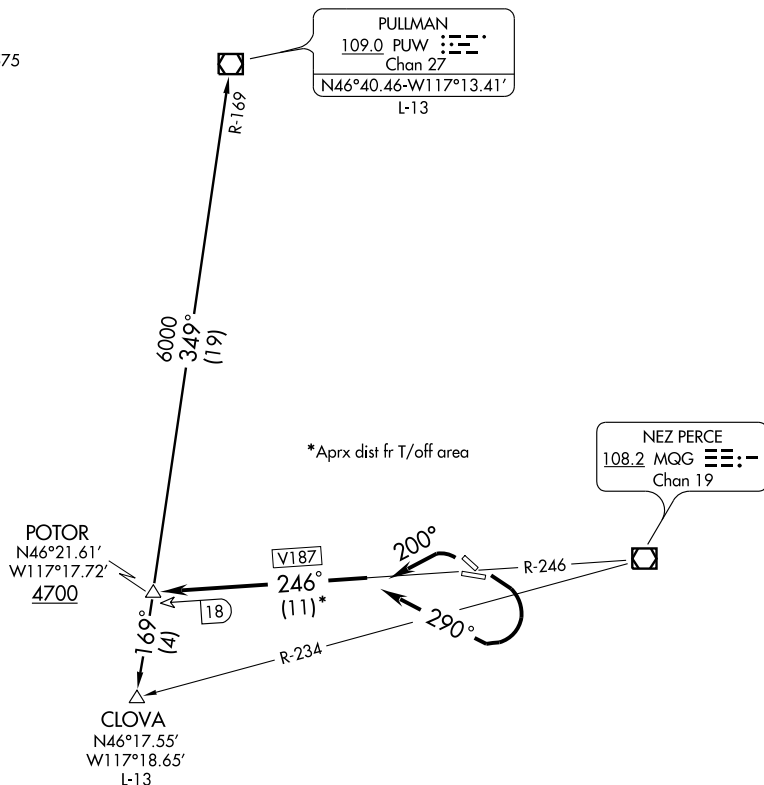
POTOR TWO DEPARTURE

SL-51.5 (FAA)

LEWISTON-NEZ PERCE COUNTY (LWS)

LEWISTON, IDAHO

GND CON
121.9
CTAF 119.4
ASOS 135.575



NOTE: Departure may be restricted to cross POTOR INT at 5000.

NOTE: Minimum climb required- Rws 26 and 29-300'/NM to 4700' (750 FPM/150K IAS 1000 FPM/200K IAS).
Rws 8 and 11-270'/NM to 4700' (675 FPM/150K IAS, 900 FPM/200K IAS) or 4600' ceiling and three miles visibility.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 8, 11: Turn right heading 290°. Thence....

TAKE-OFF RUNWAYS 26, 29: Turn left heading 200°. Thence....

....Intercept and proceed via MQG R-246 (V187) to POTOR INT. Thence via (assigned route) or (transition).

CLOVA TRANSITION (POTOR2.CLOVA): From over POTOR INT via PUW R-169 to CLOVA INT.

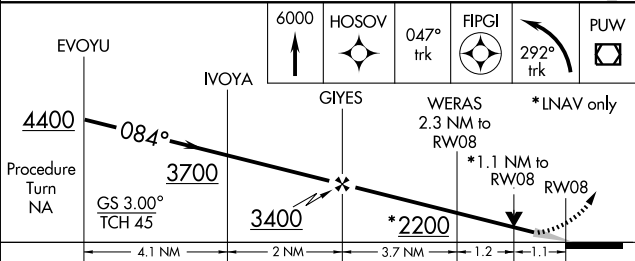
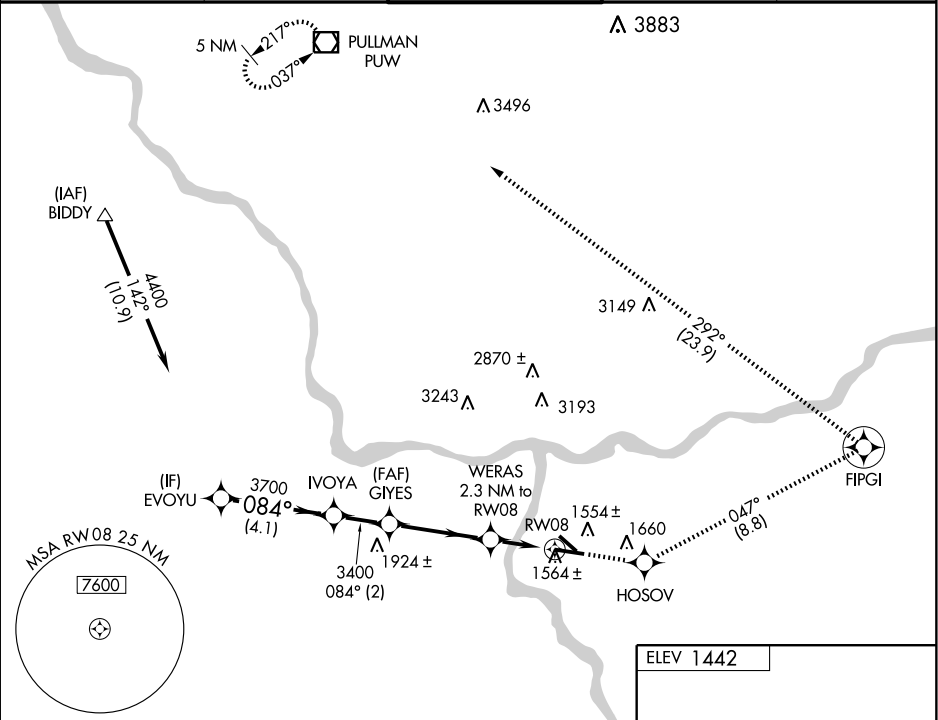
PULLMAN TRANSITION (POTOR2.PUW): From over POTOR INT via PUW R-169 to PUW VOR/DME.

WAAS CH 97600 W08A	APP CRS 084°	Rwy Idg TDZE Apt Elev 6511 1440 1442
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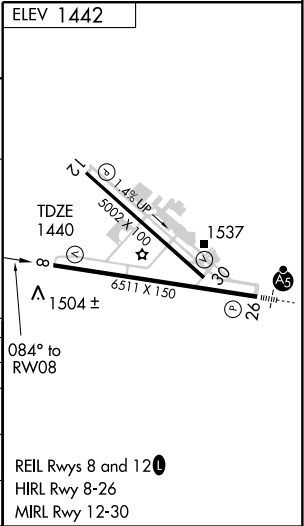
RNAV (GPS) RWY 8
LEWISTON-NEZ PERCE COUNTY (LWS)

⚠ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C (2°F) or above 46°C (114°F). ⚠ DME/DME RNP-0.3 NA. When local altimeter setting not received, procedure NA.	MISSED APPROACH: Climb to 6000 direct HOSOV and via 047° track to FIPGI, and left turn via 292° track to PUW VOR/DME and hold.
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ASOS 135.575	SEATTLE CENTER 123.95 282.3	LEWISTON TOWER★ 119.4 (CTAF) 0 318.8	GND CON 121.9	UNICOM 122.95
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CATEGORY	A	B	C	D
LPV DA		1690-1	250 (300-1)	
LNAV/VNAV DA		1831-1½	391 (400-1½)	
LNAV MDA		1820-1	380 (400-1)	1820-1¼ 380 (400-1¼)
CIRCLING	1900-1 458 (500-1)	1920-1 478 (500-1)	1960-1½ 518 (600-1½)	2160-2¼ 718 (800-2¼)



WAAS CH 56500 W12A	APP CRS 117°	Rwy Idg TDZE Apt Elev 5002 1415 1442
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RNAV (GPS) RWY 12

LEWISTON-NEZ PERCE COUNTY (LWS)

⚠ Circling requires descent on glidepath to CMDA.
DME/DME RNP-0.3 NA.
⚠ Visibility reduction by helicopters NA.
When local altimeter setting not received, procedure NA.

MISSED APPROACH: Climb to 6000 direct JESDO and via 040° track to FIPGI, and left turn via 292° track to PUW VOR/DME and hold.

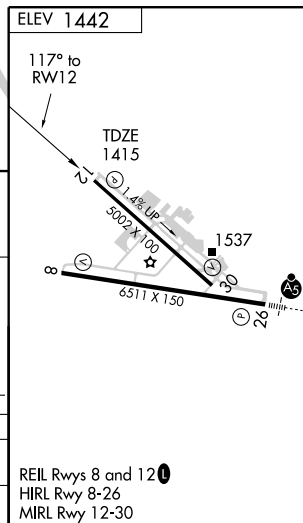
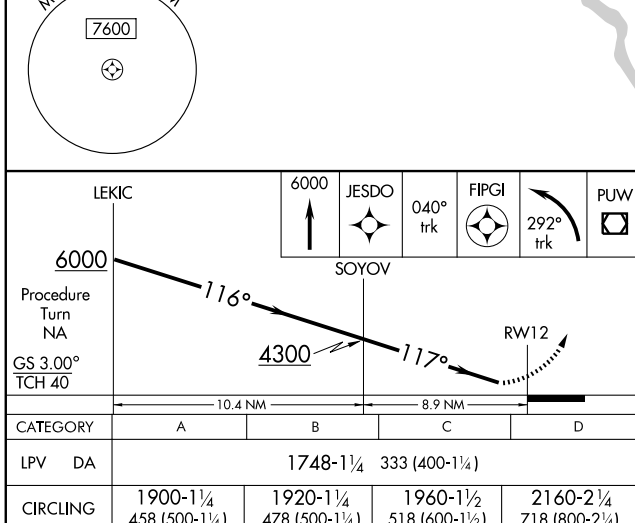
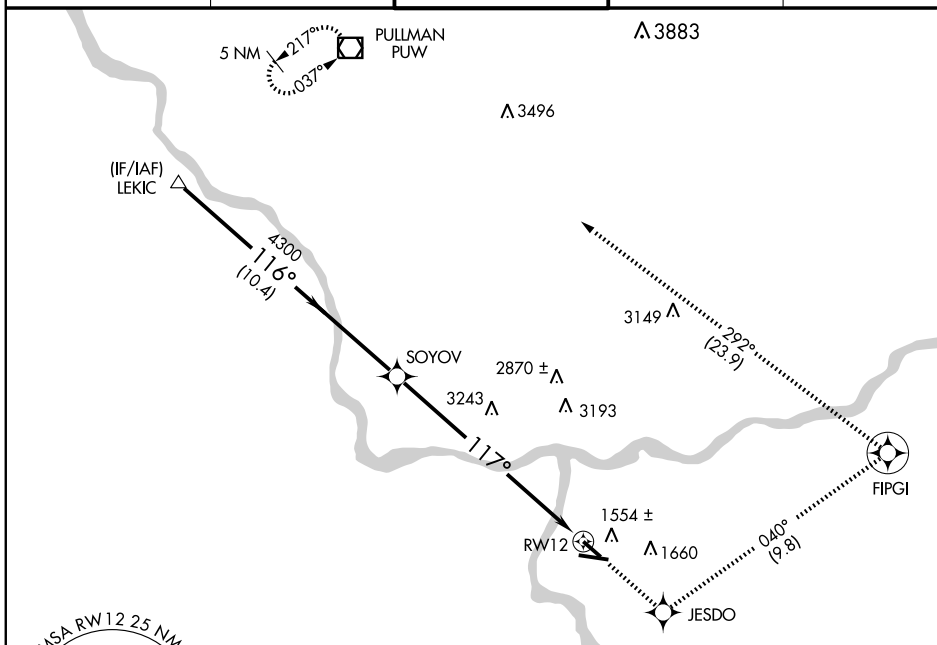
ASOS
135.575

SEATTLE CENTER
123.95 282.3

LEWISTON TOWER ★
119.4 (CTAF) 318.8

GND CON
121.9

UNICOM
122.95



REIL Rwy 8 and 12 **1**
HIRL Rwy 8-26
MIRL Rwy 12-30

WAAS CH 78012 W26A	APP CRS 264°	Rwy Idg 6511 TDZE 1442 Apt Elev 1442
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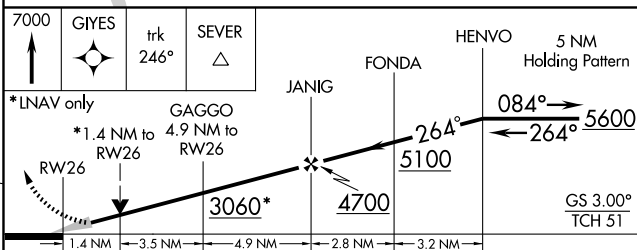
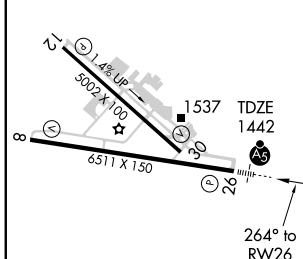
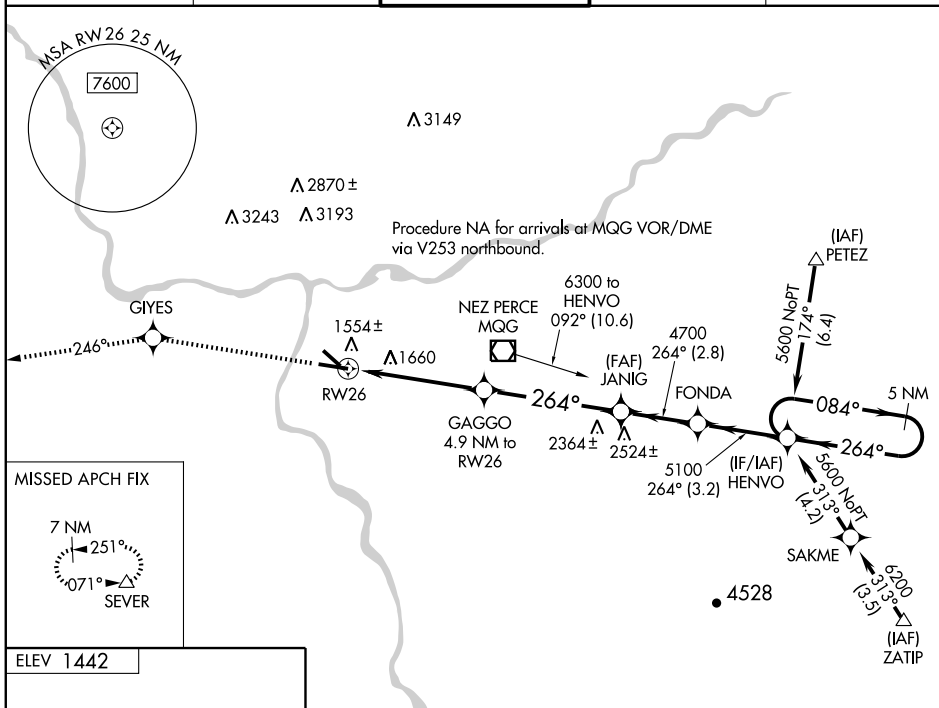
RNAV (GPS) RWY 26
LEWISTON-NEZ PERCE COUNTY (LWS)

T When local altimeter setting not received, procedure NA.
A For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C (2°F) or above 47°C (116°F). DME/DME RNP-0.3 NA.

MALSR

MISSED APPROACH: Climb to 7000 direct GIYES and via 246° track to SEVER and hold, continue climb-in-hold to 7000.

ASOS 135.575	SEATTLE CENTER 123.95 282.3	LEWISTON TOWER* 119.4 (CTAF) 0 318.8	GND CON 121.9	UNICOM 122.95
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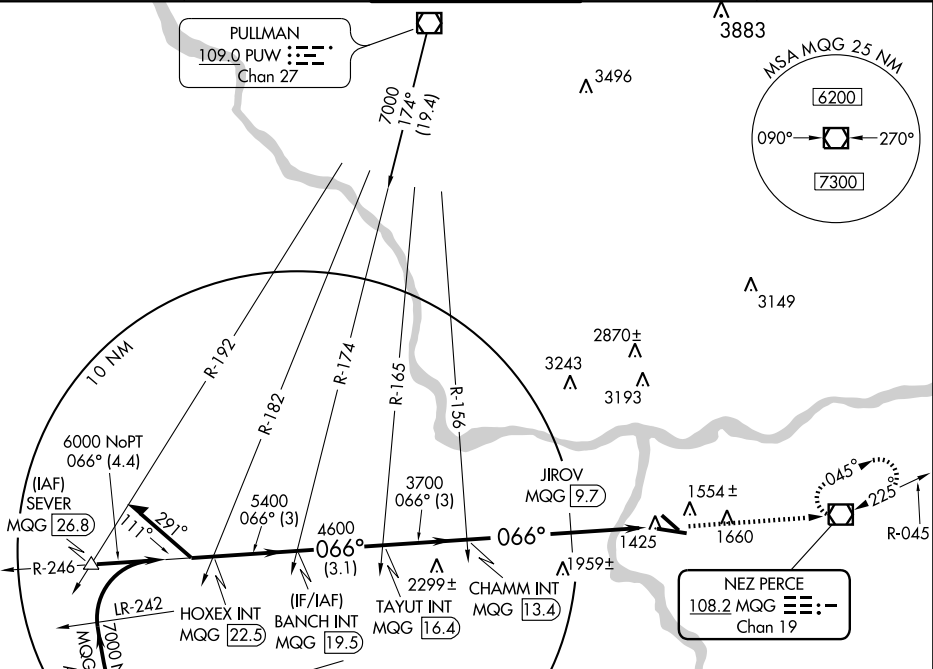
CATEGORY	A	B	C	D
LPV DA	1642-½ 200 (200-½)			
LNAV/VNAV DA	1962-1¼ 520 (600-1¼)			
LNAV MDA	1920-½ 478 (500-½)	1920-¾ 478 (500-¾)	1920-1 478 (500-1)	
CIRCLING	1920-1 478 (500-1)	1960-1½ 518 (600-1½)	2160-2¼ 718 (800-2¼)	

REIL Rwy 8 and 12 **L**
HIRL Rwy 8-26
MIRL Rwy 12-30

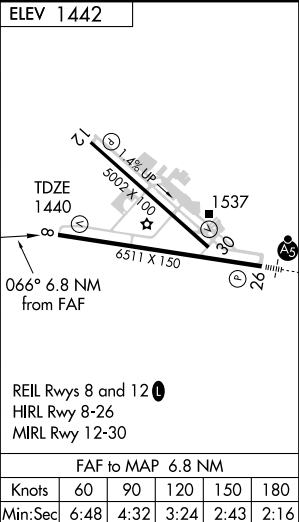
VOR/DME MQG	APP CRS	Rwy Idg	6511
108.2	066°	TDZE	1440
Chan 19		Apt Elev	1442

MISSED APPROACH: Climb to 5000 direct MQG VOR/DME and hold, continue climb-in-hold to 5000.

ASOS 135.575	SEATTLE CENTER 123.95 282.3	LEWISTON TOWER ★ 119.4 (CTAF) 318.8	GND CON 121.9	UNICOM 122.95
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HOXEX INT MQG [22.5] BANCH INT MQG [19.5] TAYUT INT MQG [16.4] CHAMM INT MQG [13.4] JIROV MQG [9.7] MQG [8.9] MQG [6.6] 5000 MQG [108.2]				
6800 6000 5400 4600 3700 2480 2480 2480 2480				
Remain within 10 NM				
3 NM 3.1 NM 3 NM 3.7 NM 0.7 2.4 NM				
CATEGORY	A	B	C	D
S-8	2480-1¼ 1040 (1100-1¼)	2480-1½ 1040 (1100-1½)	2480-3 1040 (1100-3)	
CIRCLING	2480-1¼ 1038 (1100-1¼)	2480-1½ 1038 (1100-1½)	2480-3 1038 (1100-3)	
JIROV FIX MINIMUMS				
S-8	2220-1 780 (800-1)	2220-1¼ 780 (800-1¼)	2220-2¼ 780 (800-2¼)	2220-2½ 780 (800-2½)
CIRCLING	2220-1 778 (800-1)	2220-1¼ 778 (800-1¼)	2220-2¼ 778 (800-2¼)	2220-2½ 778 (800-2½)



NW-1, 08 APR 2010 to 06 MAY 2010

▼

Inoperative table does not apply to S-26 Cats C and D.

▲

When local altimeter setting not received, procedure NA.

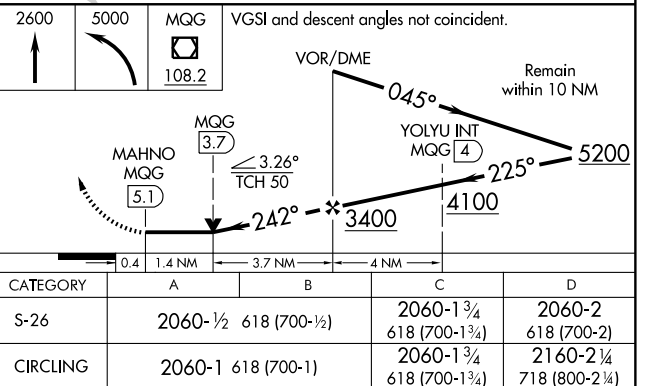
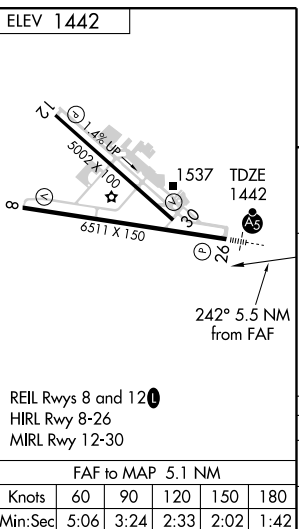
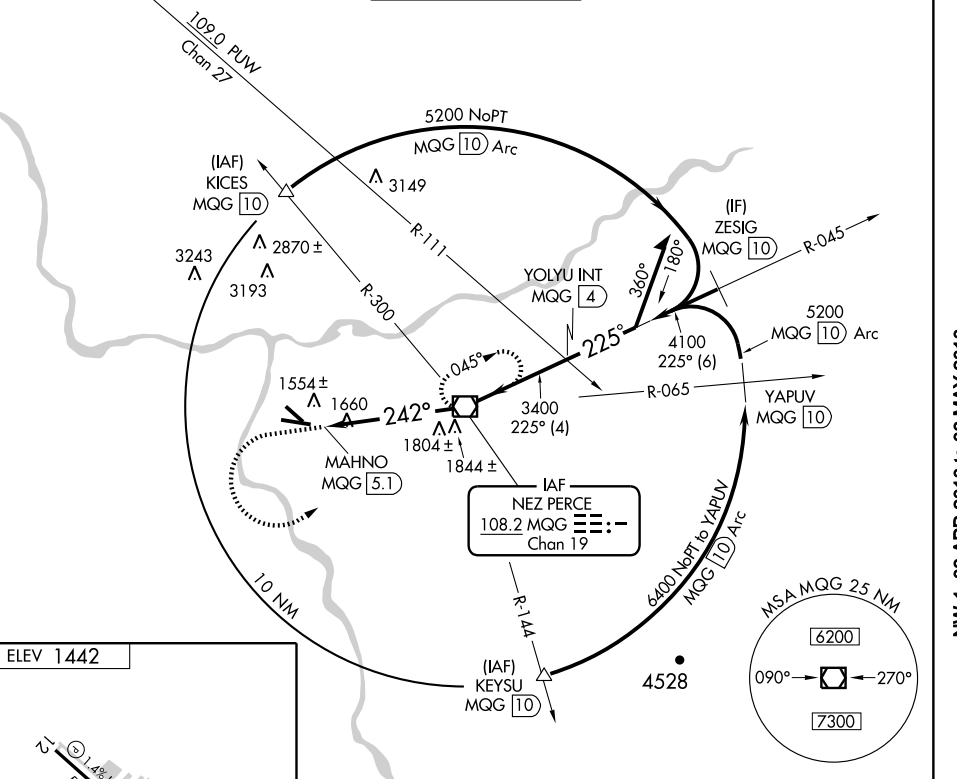
MALSR

AS

⋮


MISSED APPROACH: Climb to 2600 then climbing left turn to 5000 direct MQG VOR/DME and hold, continue climb-in-hold to 5000.


ASOS 135.575	SEATTLE CENTER 123.95 282.3	LEWISTON TOWER★ 119.4 (CTAF) 318.8	GND CON 121.9	UNICOM 122.95
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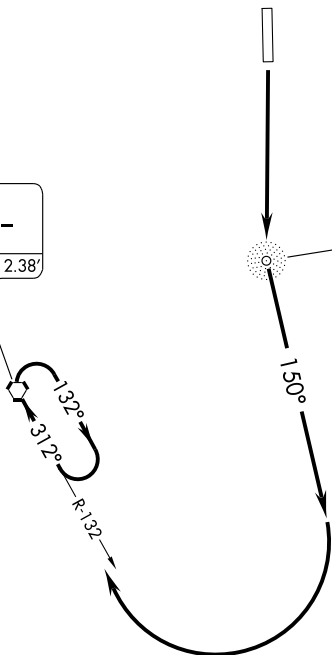


NW-1. 08 APR 2010 to 06 MAY 2010

ASOS 119.925
BOISE RADIO
122.35
SALT LAKE CENTER
128.05 387.15

DONNELLY
116.2 DNJ 
Chan 109
N44°46.03'-W116°12.38'
L-13, H-1

MC CALL
363 IOM 
N44°48.34'-W116°06.14'



TAKE-OFF OBSTACLE NOTES

Rwy 16: Trees beginning 291' from DER, 550' left of centerline, up to 101' AGL/5180' MSL.
Pole 3083' from DER, 1271' right of centerline, 34' AGL/5113' MSL.
Pole 4218' from DER, 521' left of centerline, 29' AGL/5128' MSL.
Shrub 63' from DER, 289' left of centerline, 7' AGL/5013' MSL.
Bldg 1066' from DER, 524' right of centerline, 36' AGL/5035' MSL.
Terrain beginning 1832' from DER, 445' left of centerline, up to 5079' MSL.
Terrain beginning 1236' from DER, 159' right of centerline, up to 5097' MSL.

TAKE-OFF MINIMUMS

Rwy 16: 200-1 or standard with minimum climb of 362' per NM to 5300.
Rwy 34: NA - Obstacles.

NOTE: ADF Required

NOTE: Chart not to scale.

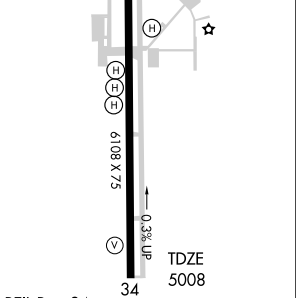
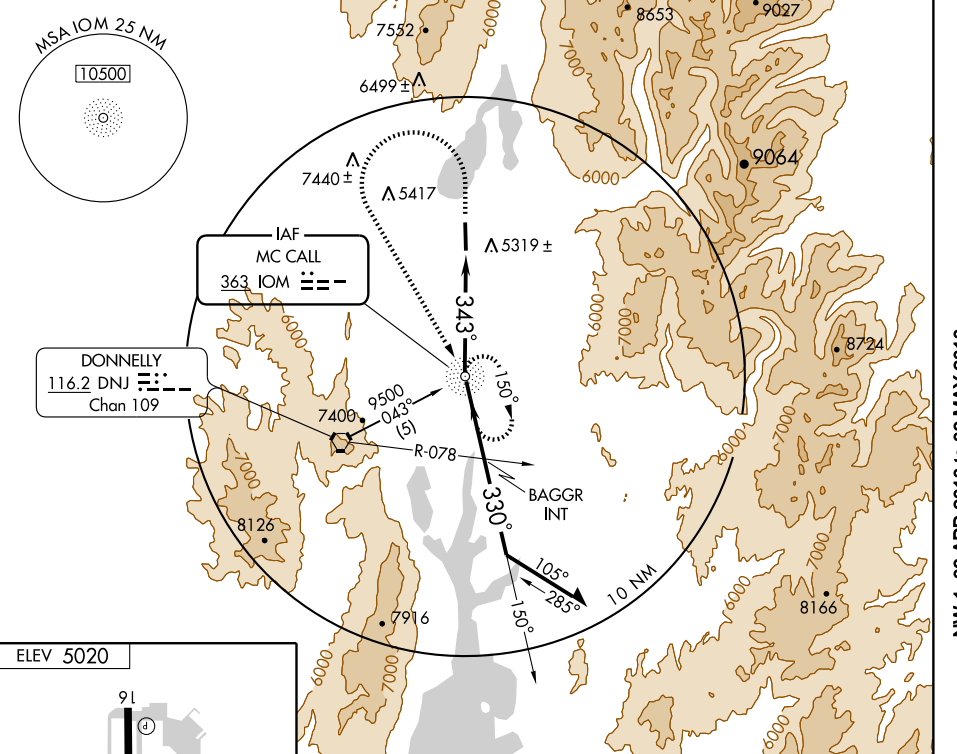
DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 16: Climb to 9600 direct IOM NDB and via IOM NDB 150° bearing then climbing right turn to 10400 direct DNJ VORTAC, continue climb-in-hold to 10400 before proceeding on course.

NA
If local altimeter not received, procedure NA.

MISSED APPROACH: Climb to 6300, then climbing left turn via IOM NDB 313° bearing to IOM NDB, continue climb via IOM NDB 133° bearing to 9500, then turn right direct IOM NDB and hold.

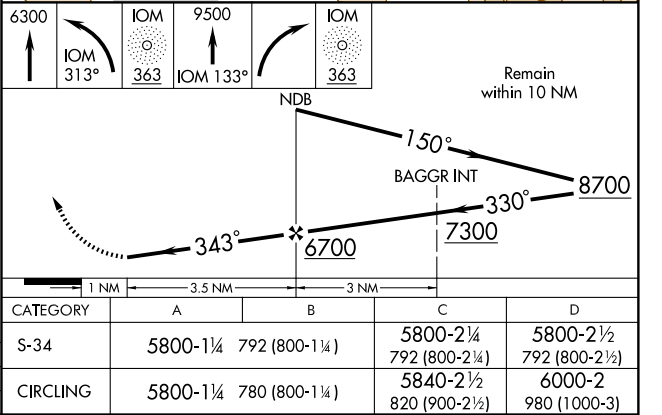
ASOS 119.925	SALT LAKE CENTER 128.05 387.15	UNICOM 122.8 (CTAF)
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REIL Rwy 34

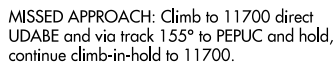
MIRL Rwy 16-34

FAF to MAP 3.5 NM					
Knots	60	90	120	150	180
Min:Sec	3:30	2:20	1:45	1:24	1:10



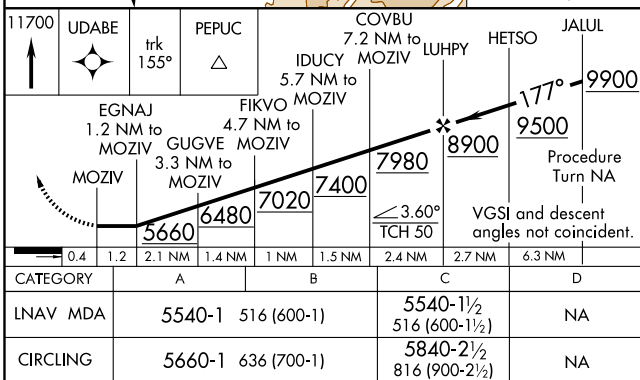
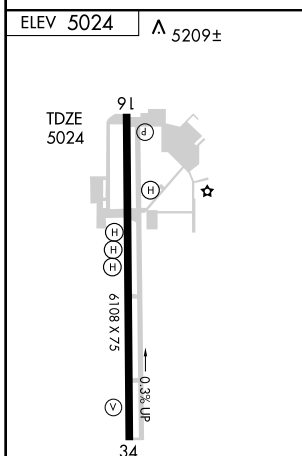
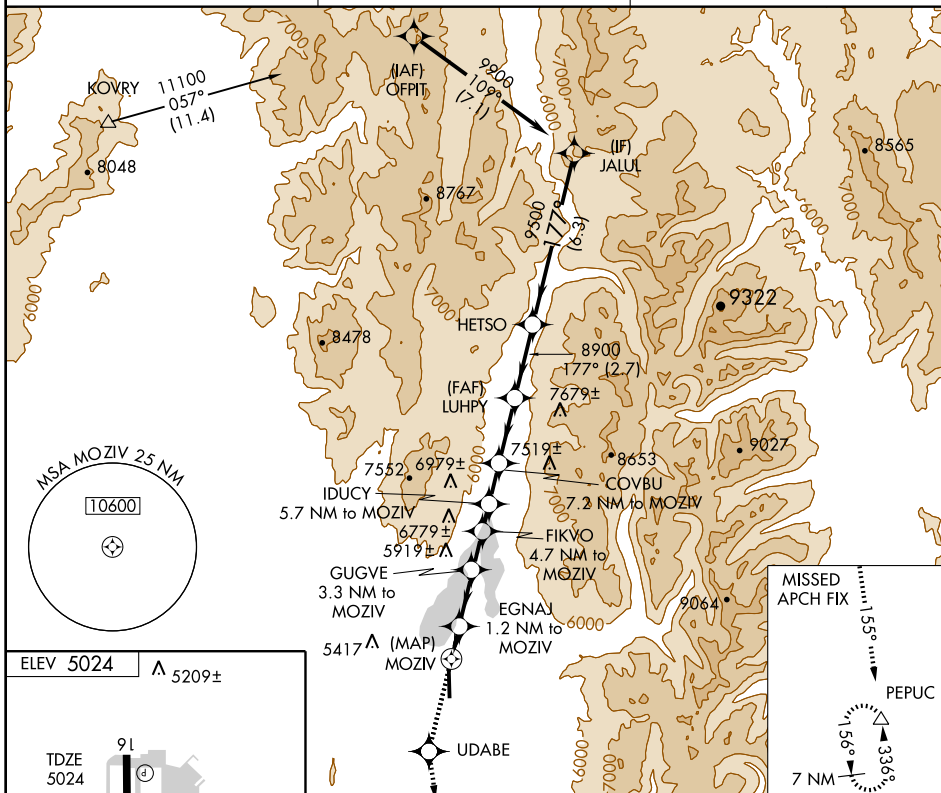
CATEGORY	A	B	C	D
S-34	5800-1¼ 792 (800-1¼)	5800-2¼ 792 (800-2¼)	5800-2½ 792 (800-2½)	5800-2½ 792 (800-2½)
CIRCLING	5800-1¼ 780 (800-1¼)	5840-2½ 820 (900-2½)	5840-2½ 820 (900-2½)	5840-2 980 (1000-3)

RNAV (GPS) RWY 16
MC CALL MUNI (MYL)



SALT LAKE CENTER
128.05 387.15

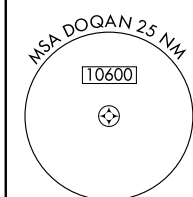
UNICOM
122.8 (CTAF)



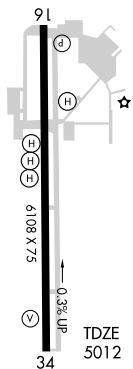
RNAV (GPS) Y RWY 34
MC CALL MUNI (MYL)

MISSED APPROACH: Climb to 12000 direct WUTPU and via track 285° to PAMUV and via track 235° to SUMOQ and hold, continue climb-in-hold to 12000.

UNICOM
122.8 (CTAF)



ELEV 5024



12000 ↑	WUTPU ✱	trk 285°	PAMUV ✱	trk 235°	SUMOQ △	PEPUC	7 NM Holding Pattern
CATEGORY		A		B		C	
LNAV MDA*		5580-1		568 (600-1)		5580-1½ 568 (600-1½)	
LNAV MDA		6600-1¼ 1588 (1600-1¼)		6600-1½ 1588 (1600-1½)		6600-3 1588 (1600-3)	
CIRCLING		6600-1¼ 1576 (1600-1¼)		6600-1½ 1576 (1600-1½)		6600-3 1576 (1600-3)	

NW-1. 08 APR 2010 to 06 MAY 2010

REIL Rwy 34
MIRL Rwy 16-34

RNAV (GPS) Z RWY 34
MC CALL MUNI (MYL)



MISSED APPROACH: Climb to 12000 direct LALBE and via track 278° to WADPO and via track 241° to SUMOQ and hold, continue climb-in-hold to 12000.

ASOS
119.925

SALT LAKE CENTER
128-05 387-15

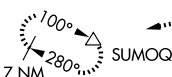
UNICOM
122.8 (CTAF)

MISSED APCH FIX

WADPO

241° (16.2)

278° (9.1)

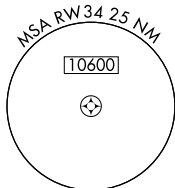


(IF) TIKDE

9500

(IAF)
SIDZY

ELEV 5024

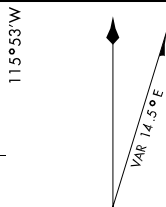


342° to
RW34

REIL Rwy 34
MIRL Rwy 16-34

12000 ↑	LALBE 	trk 278° 	trk 241° 	SUMOQ △	Procedure Turn NA
<p>RW34 → AYDAP (7600) → URAFY (8200) → TIKDE (9500)</p> <p>Heading: 342°</p> <p>GS 3.00° TCH 56'</p>					
CATEGORY	A	B	C	D	
LPV DA	5400-1¼ 388 (400-1¼)				

ATIS 273.5
CLNC DEL
127.1 290.425
GND CON
120.5 275.8
MOUNTAIN HOME
TOWER
133.85 253.5

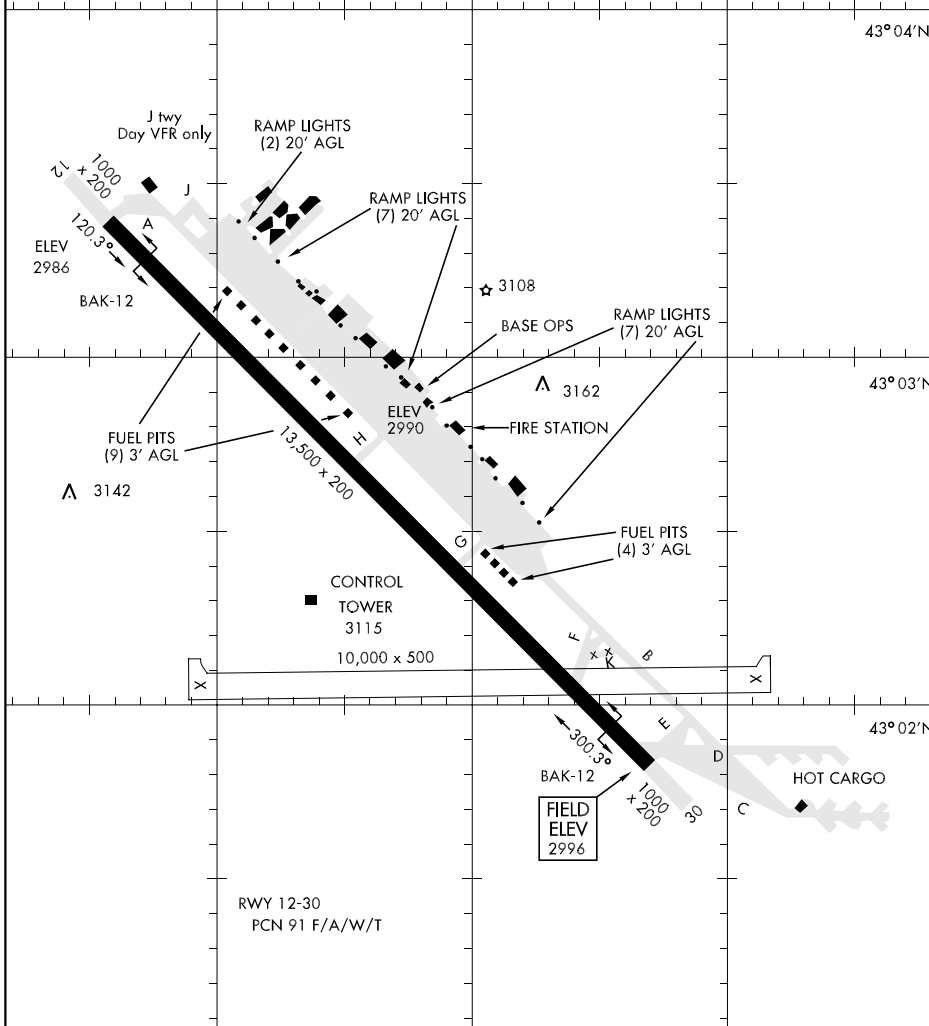


APRIL 2008
ANNUAL RATE OF CHANGE
0.2°W

115°53'W 115°52'W 115°51'W

43°04'N 43°03'N 43°02'N

1000
+200
120.3°
ELEV
2986
BAK-12
J
Day VFR only
RAMP LIGHTS
(2) 20' AGL
RAMP LIGHTS
(7) 20' AGL
RAMP LIGHTS
(7) 20' AGL
BASE OPS
RAMP LIGHTS
(7) 20' AGL
FIRE STATION
FUEL PITS
(9) 3' AGL
A 3142
ELEV
2990
CONTROL
TOWER
3115
10,000 x 500
FUEL PITS
(4) 3' AGL
BAK-12
FIELD
ELEV
2996
RWY 12-30
PCN 91 F/A/W/T
HOT CARGO



LOC I-MUO 110.3	APCH CRS 117°	Rwy Idg 13,500 TDZE 2986 Arprt Elev 2996
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JAL-323 [USAF]

MOUNTAIN HOME AFB (KMUO)

▼ * When ALS inop, increase CAT CDE RVR to 40 and vis to $\frac{3}{4}$ mile.
 ** When ALS inop, increase CAT C RVR to 60 and vis to $1\frac{1}{4}$ miles,
 CAT D vis to $1\frac{1}{2}$ miles, CAT E vis to $1\frac{3}{4}$ miles.

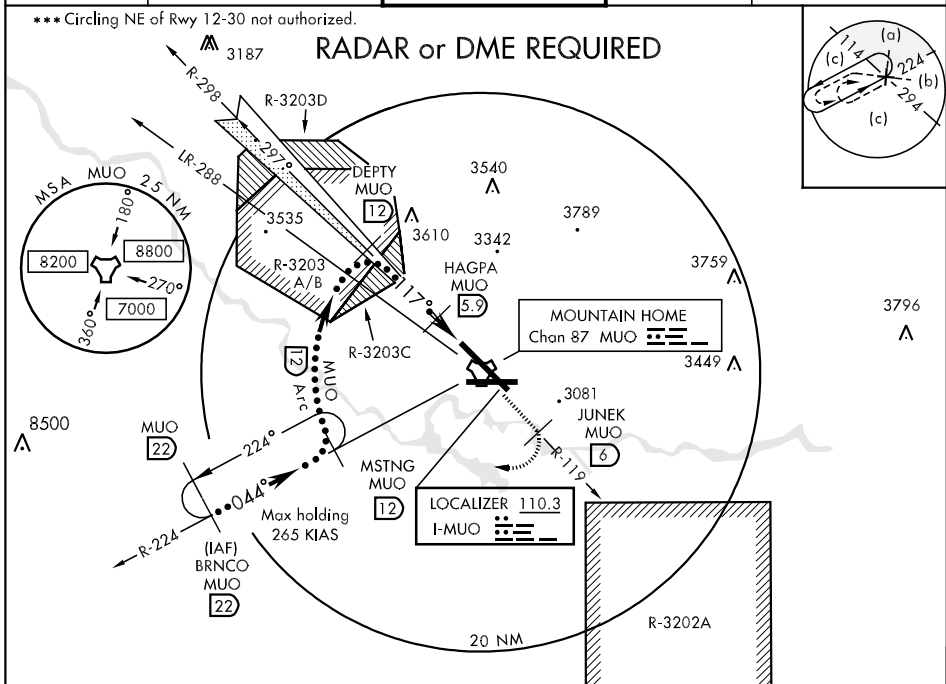


MISSED APPROACH: Climb to 9000 via MUO R-119 to JUNEK INT/6 DME, turn right direct MSTNG and hold.

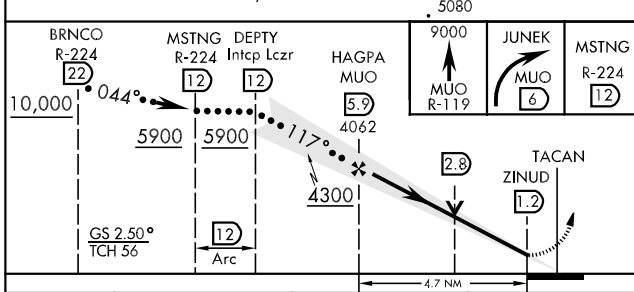
ATIS 273.5	MOUNTAIN HOME APP CON 124.8 259.1	MOUNTAIN HOME TOWER 133.85 253.5	GND CON 120.5 275.8	CLNC DEL 127.1 290.425
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*** Circling NE of Rwy 12-30 not authorized.

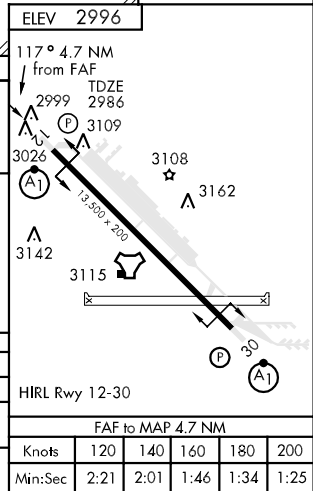
RADAR or DME REQUIRED



EMERG SAFE ALT 100 NM 14,200



CATEGORY	C	D	E
S-ILS 12 *	3186/24	200	(200-1/2)
S-LOC 12 **	3480/40 494 (500-3/4)	3480/50 494 (500-1)	3480/60 494 (500-1 1/4)
CIRCLING ***	3520-1 1/2 524 (600-1 1/2)	3560-2	564 (600-2)



MOUNTAIN HOME, IDAHO

43°03'N-115°52'W

MOUNTAIN HOME AFB (KMUO)

LOC F-BRN 111.7	APCH CRS 297°	Rwy Idg 13,500 TDZE 2996 Arot Elev 2996	JAL-323 [USAF]	MOUNTAIN HOME AFB (KMUO)
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T * When ALS inop., increase CAT CDE RVR to 40 and vis to $\frac{3}{4}$ mile.

ALSF-1

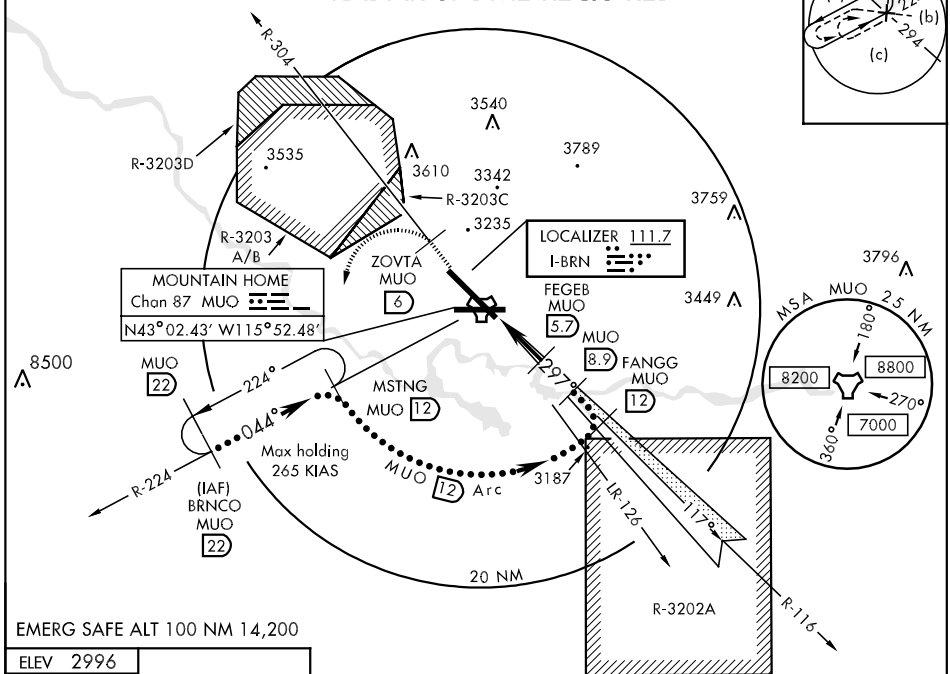
MISSED APPROACH: Climb to 9000 via MUO R-304 to ZOVTI INT/6 DME, turn left direct MSTNG and hold.

ATIS 273.5	MOUNTAIN HOME APP CON 124.8 259.1	MOUNTAIN HOME TOWER 133.85 253.5	GND CON 120.5 275.8	CLNC DEL 127.1 290.425
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* * * Circling NE of Rwy 12-30 not authorized.

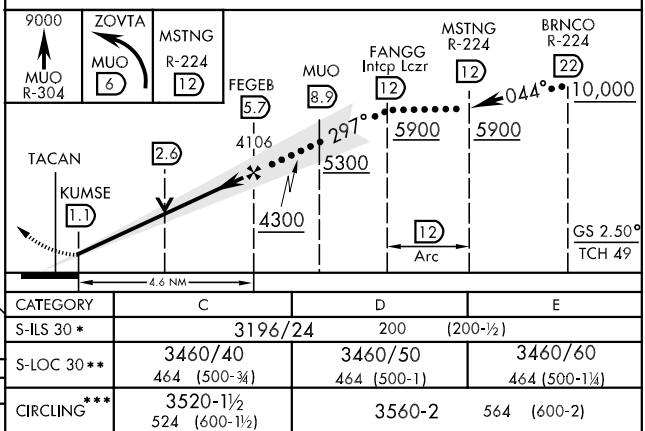
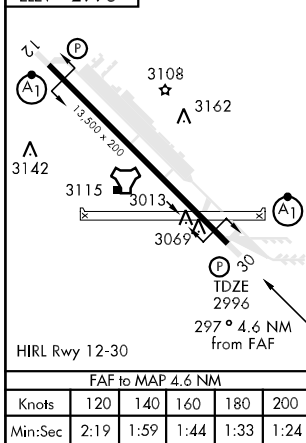
3187

RADAR or DME REQUIRED



EMERG SAFE ALT 100 NM 14,200

ELEV 2996



MOUNTAIN HOME, IDAHO

43°03'N-115°52'W

MOUNTAIN HOME AFB (KMUO)

Orig 08101

JUN 16 1964

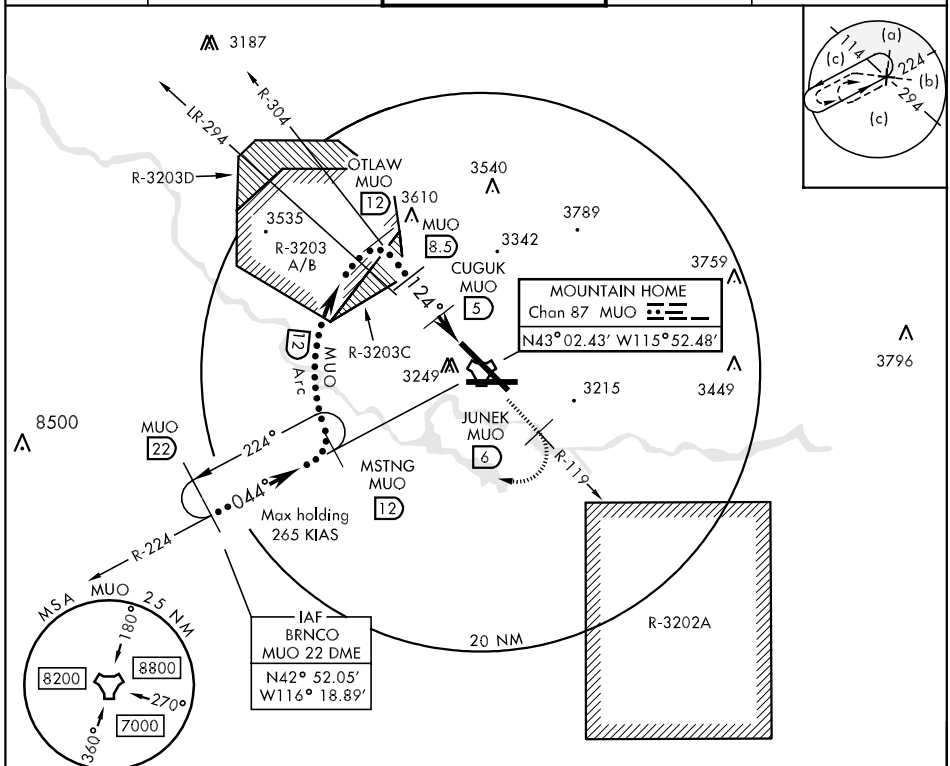
TACAN Chan 87	APCH CRS 124°	Rwy Idg 13,500 TDZE 2986 Arpt Elev 2996	JAL-323 [USAF]	MOUNTAIN HOME AFB (KMUO)
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* When ALS inop, increase CAT C RVR to 60 and vis to 1¼ miles,
CAT D vis to 1½ miles, CAT E vis to 1¾ miles.
** Circling NE of Rwy 12-30 not authorized.

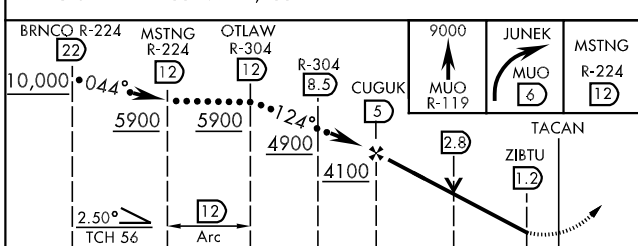
ALSF-1

MISSED APPROACH: Climb to 9000 via MUO R-119 to JUNEK INT/6 DME, turn right direct MSTNG and hold.

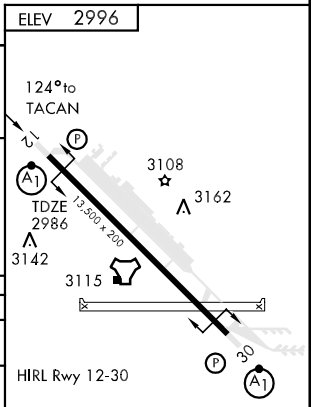
ATIS 273.5	MOUNTAIN HOME APP CON 124.8 259.1	MOUNTAIN HOME TOWER 133.85 253.5	GND CON 120.5 275.8	CLNC DEL 127.1 290.425
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EMERG SAFE ALT 100 NM 14,200



CATEGORY	C	D	E
S-12 *	3480/40 494 (500-¾)	3480/50 494 (500-1)	3480/60 494 (500-1½)
CIRCLING **	3520-1½ 524 (600-1½)	3560-2	564 (600-2)



MOUNTAIN HOME, IDAHO

43°03'N-115°52'W

MOUNTAIN HOME AFB (KMUO)

NW-1, 08 APR 2010 to 06 MAY 2010

Orig 08101

ULTAGANLBYA 10

TACAN MUO Chan 87	APCH CRS 290°	Rwy Idg 13,500 TDZE 2996 Arpt Elev 2996
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JAL-323 [USAF]

MOUNTAIN HOME AFB (KMUO)

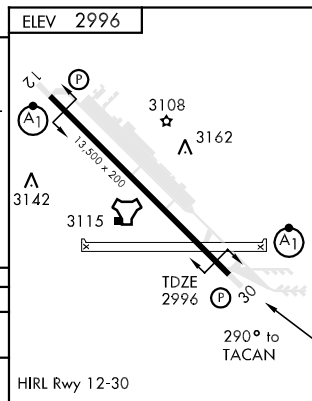
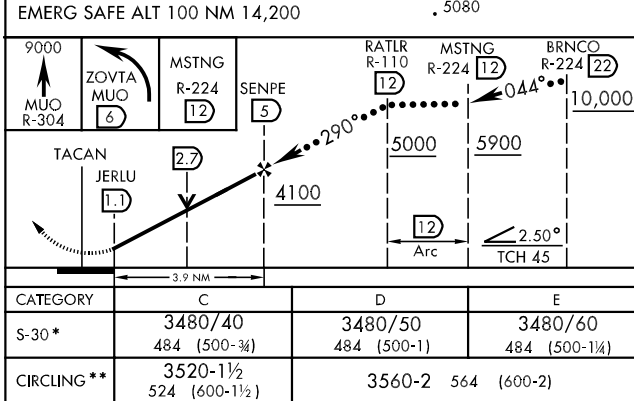
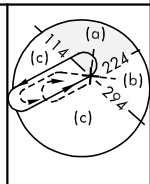
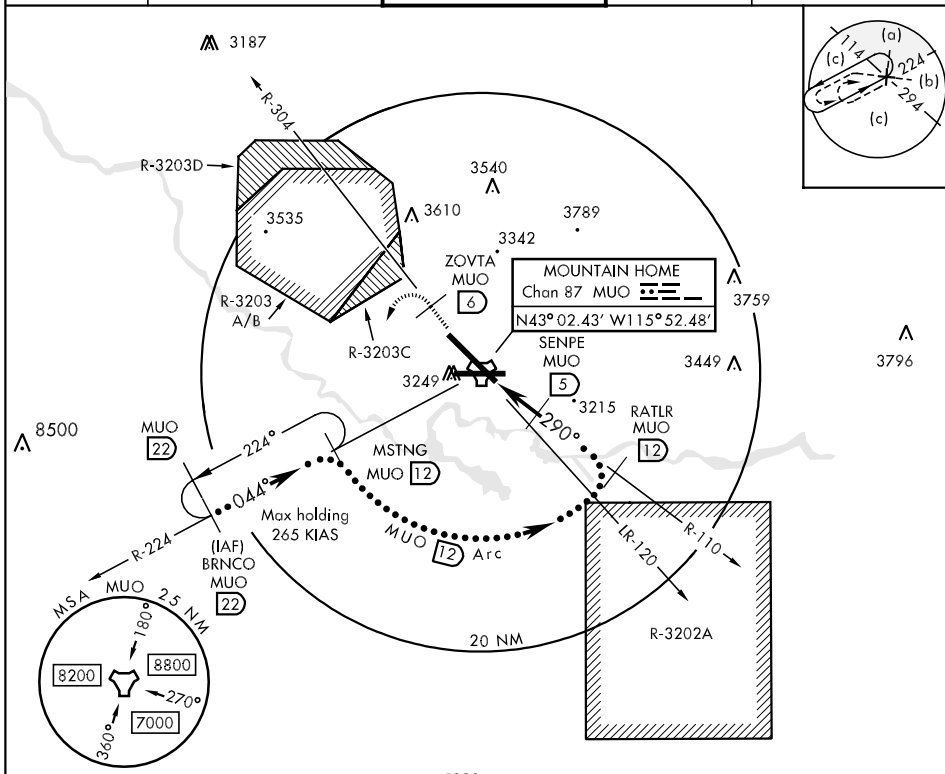
✦ * When ALS inop, increase CAT C RVR to 60 and vis to 1½ miles,
CAT D vis to 1½ miles, CAT E vis to 1¾ miles.

** Circling NE of Rwy 12-30 not authorized.



MISSED APPROACH: Climb to 9000 via
MUO R-304 to ZOVRTA INT/6 DME, turn
left direct MSTNG and hold.

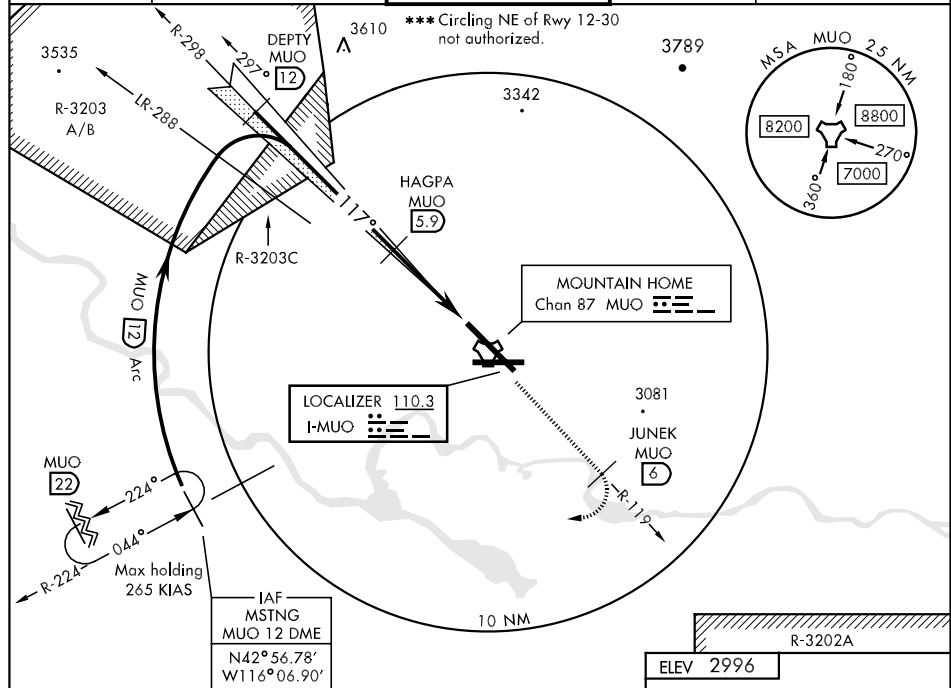
ATIS 273.5	MOUNTAIN HOME APP CON 124.8 259.1	MOUNTAIN HOME TOWER 133.85 253.5	GND CON 120.5 275.8	CLNC DEL 127.1 290.425
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LOC I-MUO 110.3	APCH CRS 117°	Rwy ldg 13,500 TDZE 2986 Arpt Elev 2996	AL-323 [USAF]	MOUNTAIN HOME AFB (KMUO)
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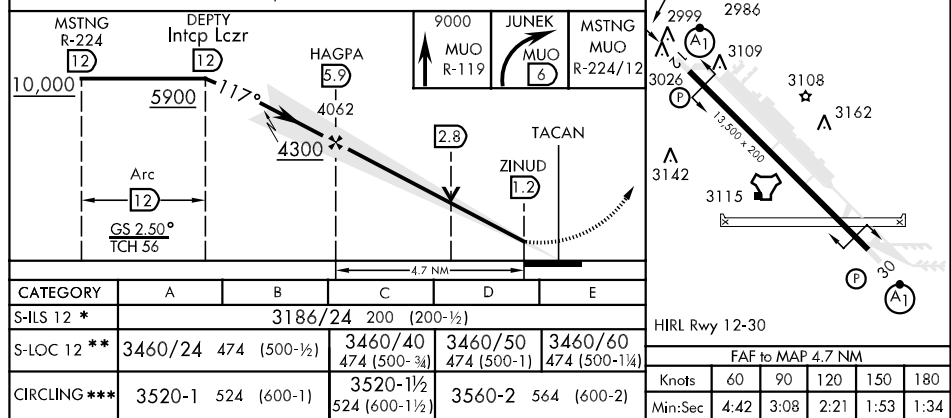
<p>▼ * When ALS inop, increase RVR to 40, vis to ¾ mile.</p> <p>** When ALS inop, increase CAT AB RVR to 50 and vis to 1 mile, CAT C RVR to 60 and vis to 1¼ miles, CAT D vis to 1½ miles, CAT E vis to 1¾ miles.</p>	<p>ALS-1 A1</p>	<p>MISSED APPROACH: Climb to 9000 via MUO R-119 to JUNEK INT/6 DME, turn right direct MSTNG and hold.</p>
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ATIS 273.5	MOUNTAIN HOME APP CON 124.8 259.1	MOUNTAIN HOME TOWER 133.85 253.5	GND CON 120.5 275.8	CLNC DEL 127.1 290.425
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RADAR or DME REQUIRED

EMERG SAFE ALT 100 NM 14,200



LOC I-BRN **111.7**
APCH CRS **297°**
Rwy Idg **13,500**
TDZE **2996**
Arprt Elev **2996**

AL-323 [USAF]

MOUNTAIN HOME AFB (KMUO)

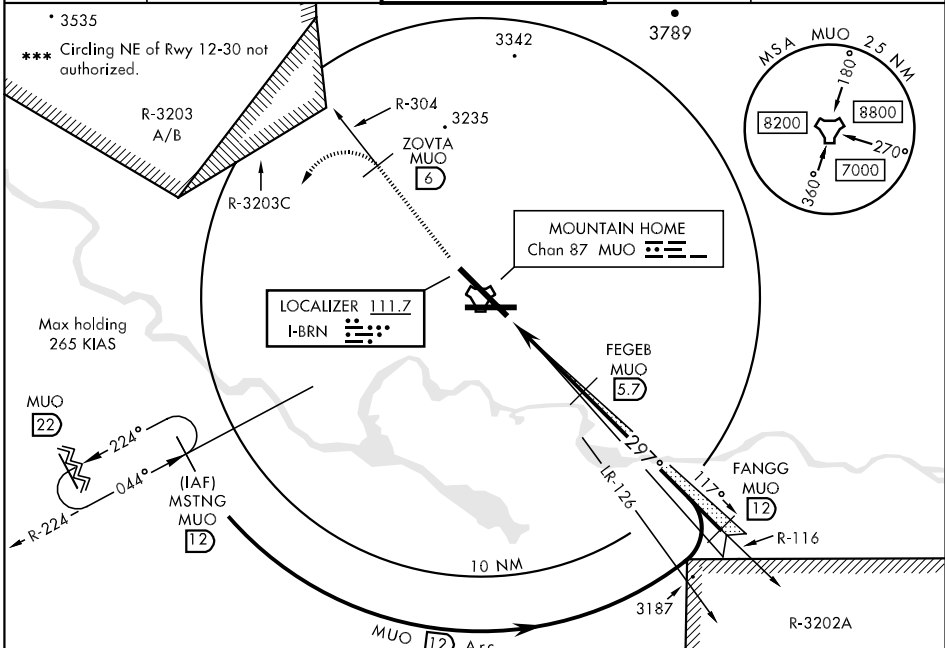
▼ * When ALS inop, increase CAT ABCDE RVR to 40, vis to ¾ mile.
** When ALS inop, increase CAT AB RVR to 50 and vis to 1 mile, CAT C RVR to 60 and vis to 1½ miles, CAT D vis to 1½ miles, CAT E vis to 1¾ miles.

ALSF-1



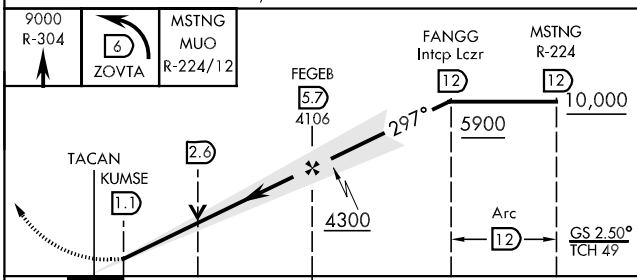
MISSED APPROACH: Climb to 9000 via MUO R-304 to ZOVRTA/6 DME, turn left direct MSTNG and hold.

ATIS 273.5	MOUNTAIN HOME APP CON 124.8 259.1	MOUNTAIN HOME TOWER 133.85 253.5	GND CON 120.5 275.8	CLNC DEL 127.1 290.425
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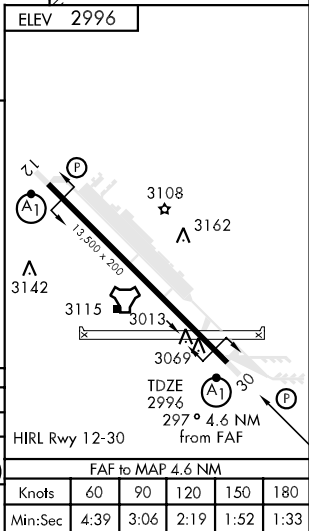


RADAR or DME REQUIRED

EMERG SAFE ALT 100 NM 14,200



CATEGORY	A	B	C	D	E
S-ILS 30 *	3196/24 200 (200-½)				
S-LOC 30 **	3460/24 464 (500-½)	3460/40 464 (500-¾)	3460/50 464 (500-1)	3460/60 464 (500-1½)	
CIRCLING ***	3520-1 524 (600-1)	3520-1½ 524 (600-1½)	3560-2 564 (600-2)		



TACAN MUO Chan 87	APCH CRS 124°	Rwy Idg 13,500 TDZE 2986 Arpt Elev 2996
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AL-323 [USAF]

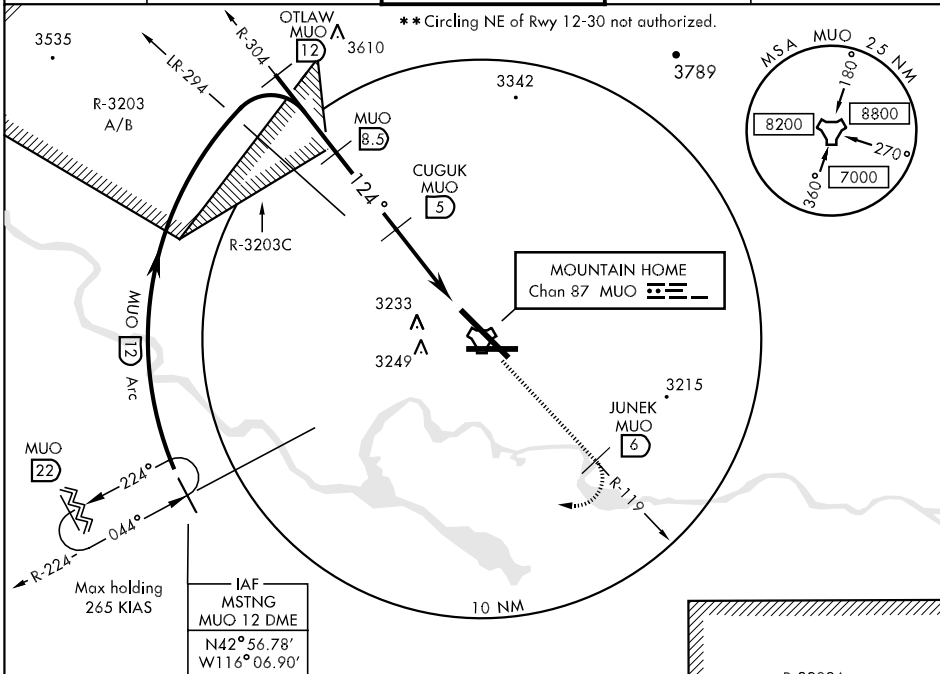
MOUNTAIN HOME AFB (KMUO)

▼ * When ALS inop, increase CAT AB RVR to 50 and vis to 1 mile, CAT C RVR to 60 and vis to 1¼ miles, CAT D vis to 1½ miles, CAT E vis to 1¾ miles.



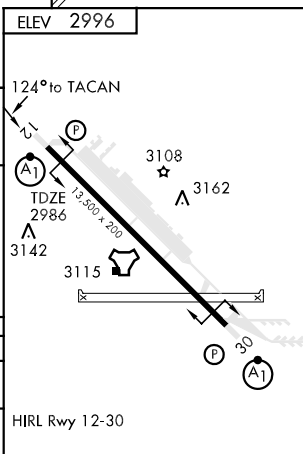
MISSED APPROACH: Climb to 9000 via MUO R-119 to JUNEK INT/6 DME, turn right direct MSTNG and hold.

ATIS 273.5	MOUNTAIN HOME APP CON 124.8 259.1	MOUNTAIN HOME TOWER 133.85 253.5	GND CON 120.5 275.8	CLNC DEL 127.1 290.425
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EMERG SAFE ALT 100 NM 14,200

MSTNG R-224 12	OTLAW R-304 12	R-304 8.5	CUGUK 5	9000 R-119	MSTNG MUO R-224/12
10,000	5900	4900	4100	2.50° TCH 56	3.8 NM
Arc 12					
CATEGORY	A	B	C	D	E
S-12 *	3480/40	494 (500-34)		3480/50 494 (500-1)	3480/60 494 (500-1¼)
CIRCLING **	3520-1 524 (600-1)	3520-1½ 524 (600-1½)		3560-2 564 (600-2)	



TACAN MUO Chan 87	APCH CRS 290°	Rwy Idg 13,500 TDZE 2996 Arpt Elev 2996
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AL-323 [USAF]

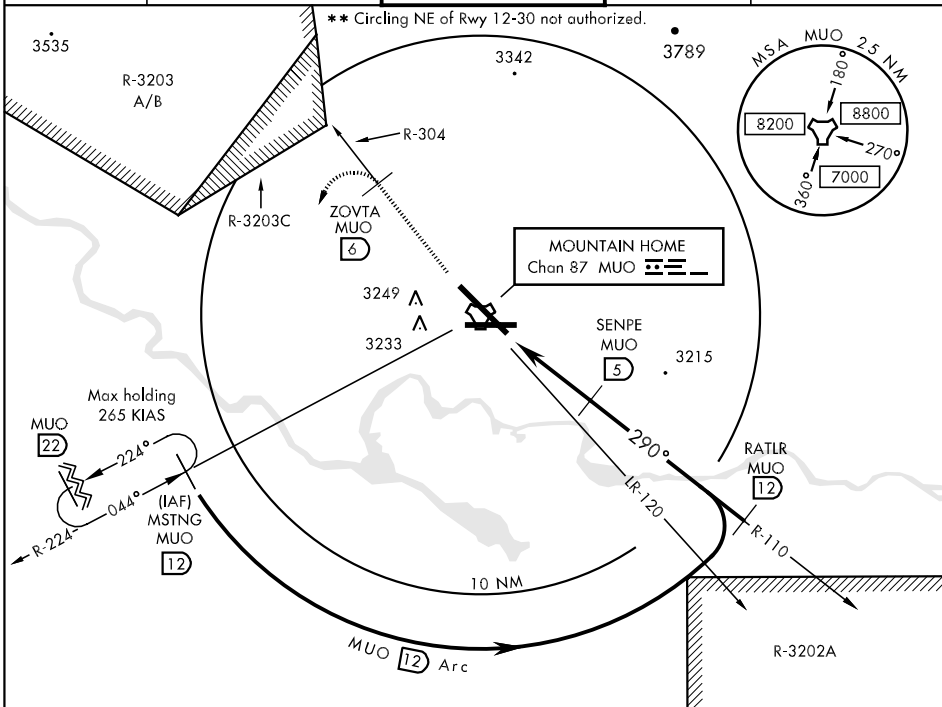
MOUNTAIN HOME AFB (KMUO)

▼ * When ALS inop, increase CAT AB RVR to 50 and vis to 1 mile, CAT C RVR to 60 and vis to 1½ miles, CAT D vis to 1½ miles, CAT E vis to 1¾ miles.

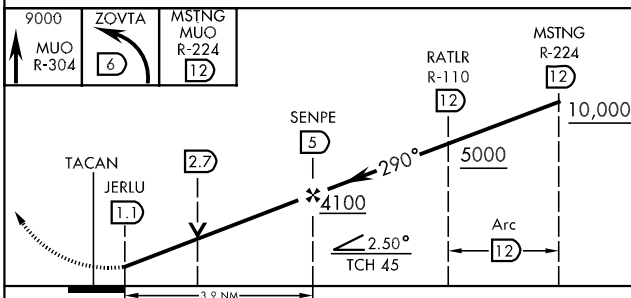


MISSED APPROACH: Climb to 9000 via MUO R-304 to ZOVRTA INT/6 DME, turn left direct MSTNG and hold.

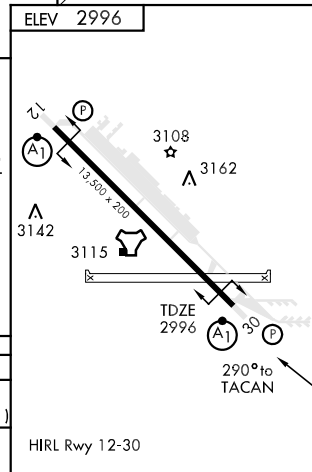
ATIS 273.5	MOUNTAIN HOME APP CON 124.8 259.1	MOUNTAIN HOME TOWER 133.85 253.5	GND CON 120.5 275.8	CLNC DEL 127.1 290.425
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EMERG SAFE ALT 100 NM 14,200



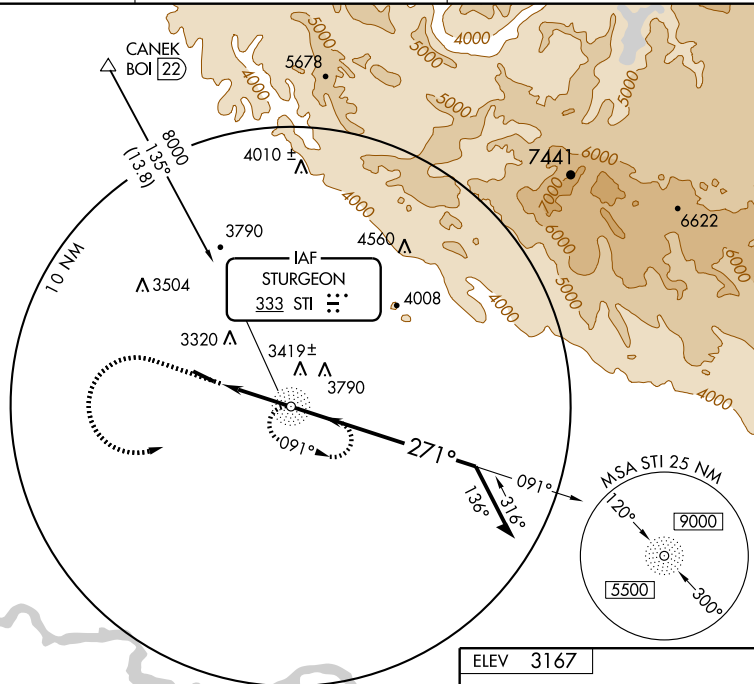

CATEGORY	A	B	C	D	E
S-30 *	3480/24	484 (500-½)	3480/40 484 (500-¾)	3480/50 484 (500-1)	3480/60 484 (500-1½)
CIRCLING **	3520-1	524 (600-1)	3520-1½ 524 (600-1½)	3560-2	564 (600-2)



MOUNTAIN HOME MUNI (U76)



MISSED APPROACH: Climb to 5000 then climbing left turn to 6000 direct STI NDB and hold.

UNICOM
122.8 (CTAF) 

NW-1. 08 APR 2010 to 06 MAY 2010

Remain
thin 10 NM

thin 10 NM

6000

■ ■ ■

descent angl

ent.

D

3720-1 $\frac{3}{4}$

55 (600-1³/₄)

3840-2¼

73 (700-2¼)

ELEV 3167

Diagram illustrating the FAF (Fiber Array Fabric) structure and dimensions. The FAF is a 5000 x 75 μm array. A 271° 2.9 nm phase shift is indicated from the FAF. The diagram also shows a 3209 μm distance to a star symbol, a 3234 μm distance to a triangle symbol, and a 28 μm distance to a circle symbol. The TDZE (Total Dose Zone) is indicated as 3165 μm.

REIL Rwy 10 and 28 **L**
MIRL Rwy 10-28 **L**

FAF to MAP 2.9 NM

Knots	60	90	120	150	180
Min:Sec	2:54	1:56	1:27	1:10	0:58

WAAS CH 42815 W28A	APP CRS 280°	Rwy Idg TDZE Apt Elev	5000 3165 3167
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RNAV (GPS) RWY 28

MOUNTAIN HOME MUNI (U76)

NA Circling to Rwy 10 NA at night. Baro-VNAV NA. DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. Use Mountain Home AFB altimeter setting, when not received procedure NA.

MISSED APPROACH: Climb to 7900 direct APOBE and via track 320° to ATETY and hold, continue climb-in-hold to 7900.

AWOS-3
122.8

MOUNTAIN HOME APP CON ★
124.8 259.1

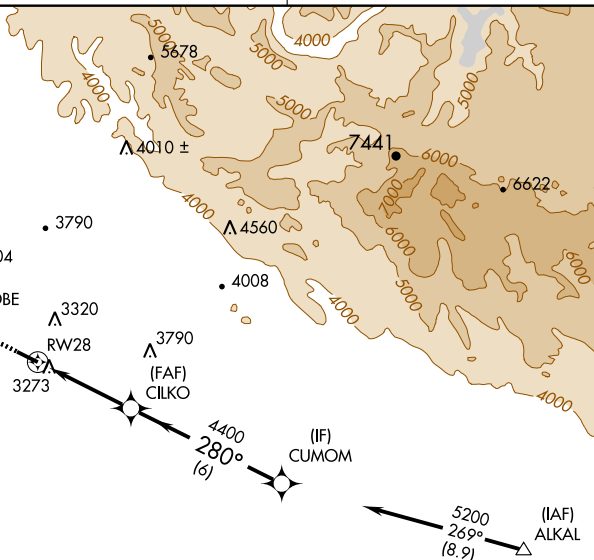
UNICOM
122.8 (CTAF) 0

MISSED APCH FIX



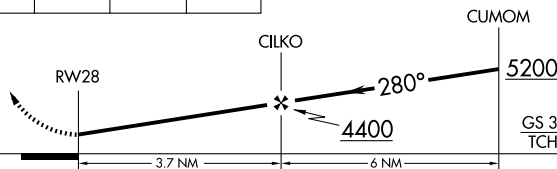
MSA RW28 2.5 NM

9000

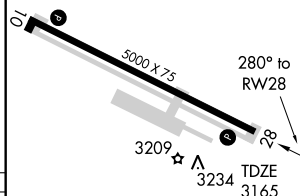


Procedure NA for arrivals at ALKAL via V-4-253-330 southeast bound.

7900 ↑	APOBE ★	trk 320°	ATETY △	VGSI and RNAV glidepath not coincident.	Procedure Turn NA
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ELEV 3167

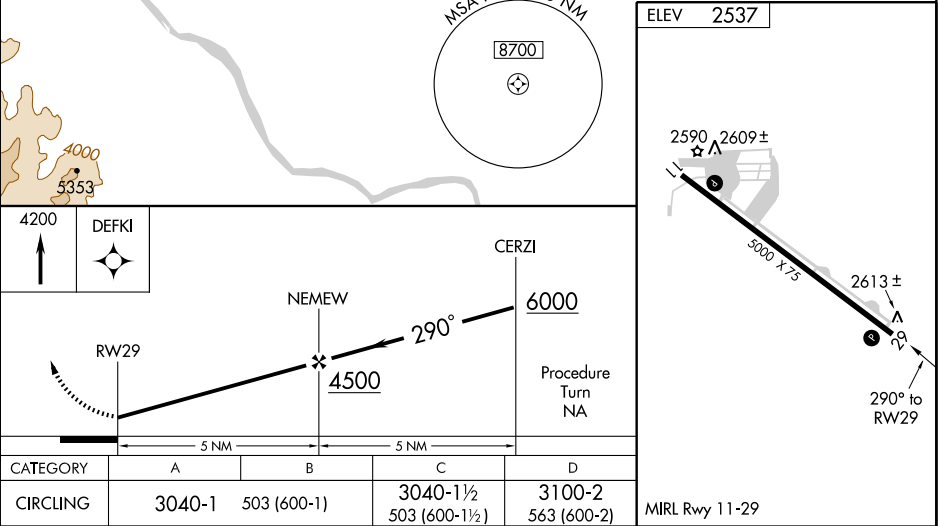
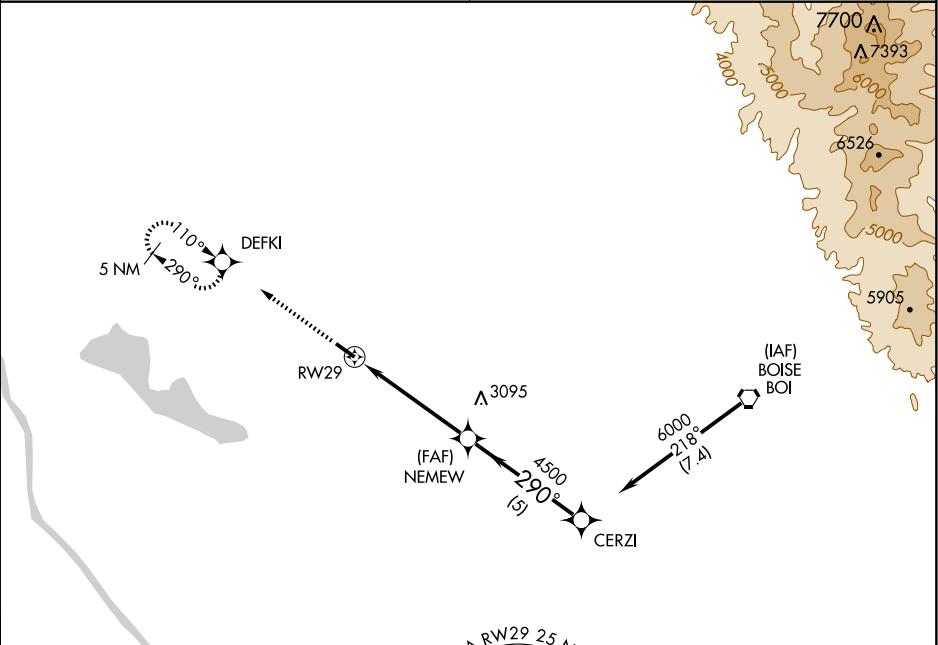


CATEGORY	A	B	C	D
LPV DA	3458-1 293 (300-1)			
LNAV/VNAV DA	3566-1½ 401 (400-1½)			
LNAV MDA	3580-1 415 (500-1)	3580-1¼ 415 (500-1¼)		
CIRCLING	3700-1 533 (600-1)	3720-1 553 (600-1)	3820-1¾ 653 (700-1¾)	3840-2¼ 673 (700-2¼)

REIL Rwy 10 and 28 0
MIRL Rwy 10-28 0

APP CRS	Rwy Idg	N/A
290°	TDZE	N/A
	Apt Elev	2537

 NA Use Caldwell altimeter setting.	MISSED APPROACH: Climb to 4200 direct DEFKI WP and hold.
BOISE APP CON 119.6 269.4	UNICOM 122.7 (CTAF) 



NDB MPA
238

APP CRS
145°

Rwy Idg	1000
TDZE	1000
Apt Elev	1000

N/A
N/A
2537

NDB-A

NAMPA MUNI (S67)

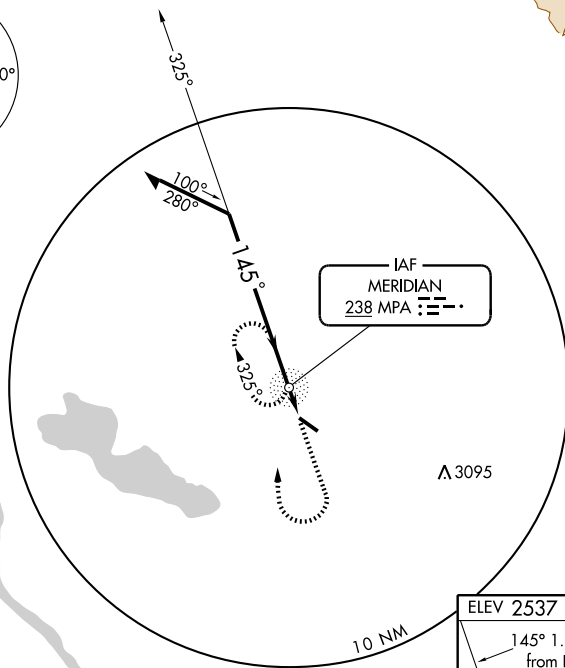
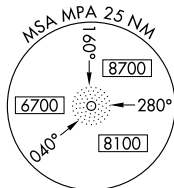



Use Caldwell altimeter setting; if not received use Boise altimeter setting and increase all MDAs 80 feet.



MISSED APPROACH: Climb to 4500 then climbing right turn to 5000 direct MPA NDB and hold.

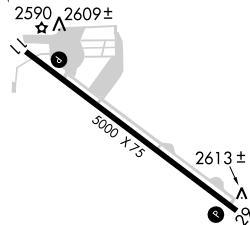
BOISE APP CON
119.6 269.4

UNICOM
122.7 (CTAF) **L**

BOISE
113.3 BOI 
Chan 80

ELEV 2537

145° 1.1 NM
from FAF



Remain
within 10 NM

NDB

4100

-145°-

3400

4500

5000

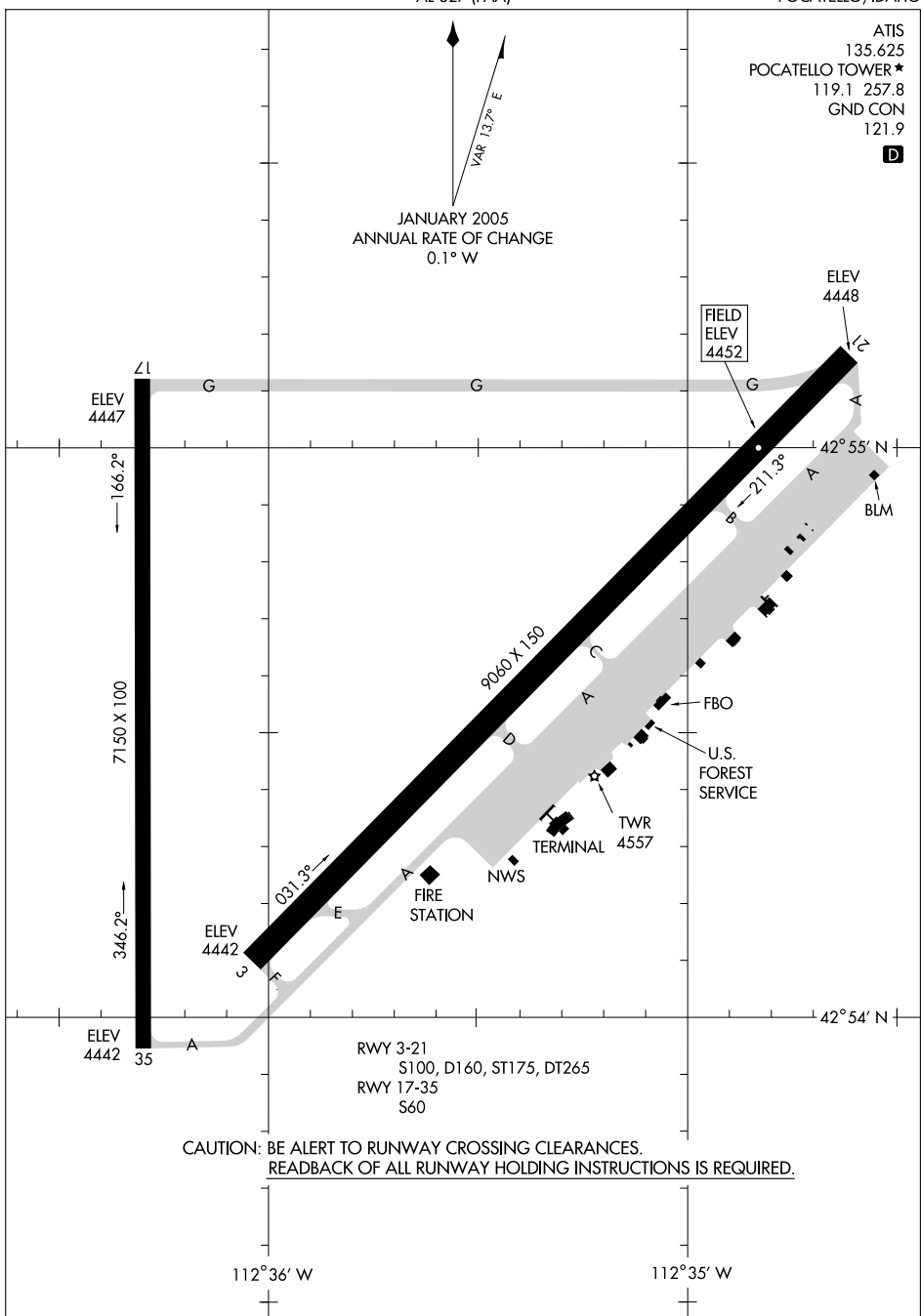
MPA
238

MIRL Rwy 11-29

CATEGORY	A	B	C	D	FAF to MAP 1.1 NM					
CIRCLING	3040-1	503 (600-1)	3040-1½ 503 (600-1½)	3100-2 563 (600-2)	Knots	60	90	120	150	180
					Min:Sec	1:06	0:44	0:33	0:26	0:22

AIRPORT DIAGRAM

POCATELLO RGNL (PIH)
POCATELLO, IDAHO



NW-1, 08 APR 2010 to 06 MAY 2010

AL-327 (FAA)

ILS or LOC RWY 21
POCATELLO RGNL (PIH)

MALSR

A5

MISSED APPROACH: Climb to 7400 direct PIH VORTAC, continue climb via PIH VORTAC R-269, then right turn direct PIH VORTAC and hold (TACAN aircraft continue via PIH VORTAC R-269 to SICOY/ PIH 10 DME and hold W, right turns. 089° inbound).

SALT LAKE CENTER
128.35 239.25

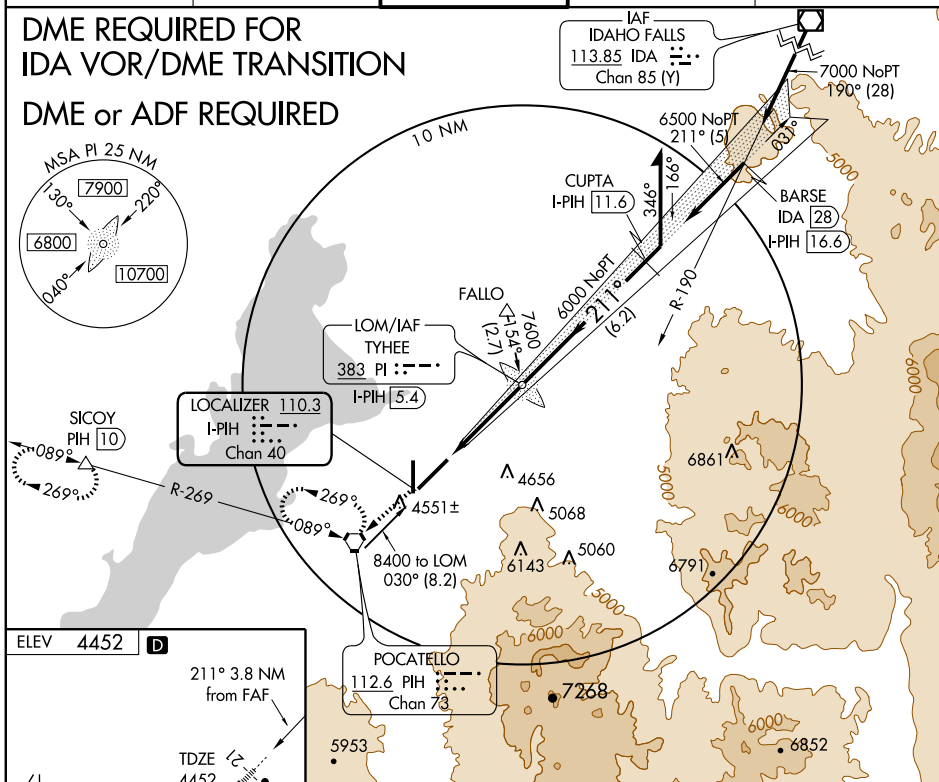
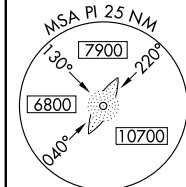
POCATELLO TOWER★
119.1 (CTAF) **0** 257.8

GND CON
121.9

UNICOM
122.95

DME REQUIRED FOR IDA VOR/DME TRANSITION

DME or ADF REQUIRED



ELEV	4452
------	------

D

211° 3.8 NM
from FAF₁

TDZE 4452

EIL Rwy 17
 IRL Rwy 3-21 **L**
 IRL Rwy 17-35 **L**

7400

↑	PIH 112.6	↑ PIH R-269	↗	PIH 112.6	TYHEE LOM* I-PIH 5.4
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* Procedure turn not authorized for Cat. E aircraft.

5715

I-PIH 1.6

Use

Remain
within 10 NM

* Procedure turn not authorized for Cat. E aircraft

6000 $\frac{GS\ 3.00^\circ}{TCH\ 56}$
Use I-PIH DME when on LOC course.

HIRL Rwy 3-21 (1)						CATEGORY		A		B		C		D		E	
MIRL Rwy 17-35 (1)						S-ILS 21		** 4652/24 200 (200-½)									
FAF to MAP 3.8 NM						S-LOC 21		4740/24 288 (300-½)						4740/40 288 (300-¾)			
Knots	60	90	120	150	180	CIRCLING		4820-1		4920-1		4920-1½		5020-2 568 (600-2)			
Min:Sec	3:48	2:32	1:54	1:31	1:16			368 (400-1)		468 (500-1)		468 (500-1½)					

NW-1. 08 APR 2010 to 06 MAY 2010

KNURL ONE DEPARTURE (OBSTACLE)

BOISE RADIO

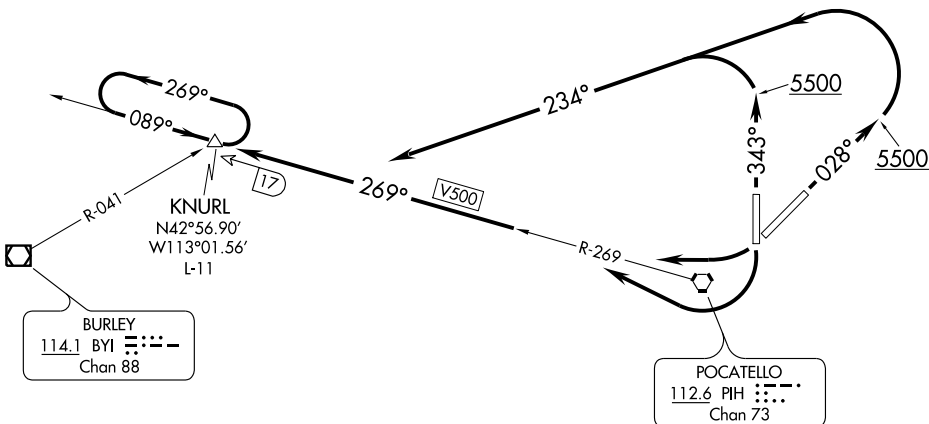
122.6

POCATELLO TOWER ★

119.1 (CTAF) 257.8

SALT LAKE CENTER

128.35 239.25

TAKE-OFF MINIMUMS

Rwy 3, 21, 35: Standard.

Rwy 17, 400-2 or standard with minimum climb of 270' per NM to 4900.

TAKE-OFF OBSTACLE NOTES

Rwy 3, Trees beginning 3353' from DER, 735' left of centerline, up to 100' AGL/4549' MSL.

Rod on obstruction light 978' from DER, 759' right of centerline, 39' AGL/4486' MSL.

Rwy 17, Transmission tower 1.1 NM from DER, 2395' left of centerline, 252' AGL/4693' MSL.

Trees beginning 1.6 NM from DER, 2642' left of centerline, up to 100' AGL/4759' MSL.

Fence 112' from DER, 416' right of centerline, 12' AGL/4453' MSL.

Bush 30' from DER, 261' right of centerline, 3' AGL/4445' MSL.

Fence 208' from DER, 421' right of centerline, 13' AGL/4449' MSL.

Rwy 21, Antenna 453' from DER, 309' left of centerline, 20' AGL/4466' MSL.

Light on localizer, 543' from DER, 286' left of centerline, 20' AGL/4462' MSL.

Rwy 35, Electrical equipment 197' from DER, 248' left of centerline, 7' AGL/4454' MSL.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 3: Climb heading 028° to 5500, then climbing left turn to 7500 via heading 234° and PIH R-269 to KNURL INT, thence

TAKE-OFF RUNWAY 35: Climb heading 343° to 5500, then climbing left turn to 7500 via heading 234° and PIH R-269 to KNURL INT, thence

TAKE-OFF RUNWAY 17: Climbing right turn to 7500 via PIH R-269 to KNURL INT, thence

TAKE-OFF RUNWAY 21: Climbing right turn to 7500 via PIH R-269 to KNURL INT, thence

. . . . via assigned route expect filed altitude 10 minutes after departure.

RNAV (GPS) RWY 3
POCATELLO RGNL (PIH)

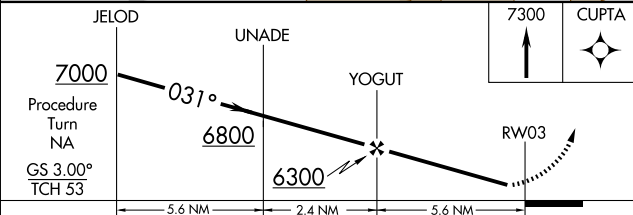
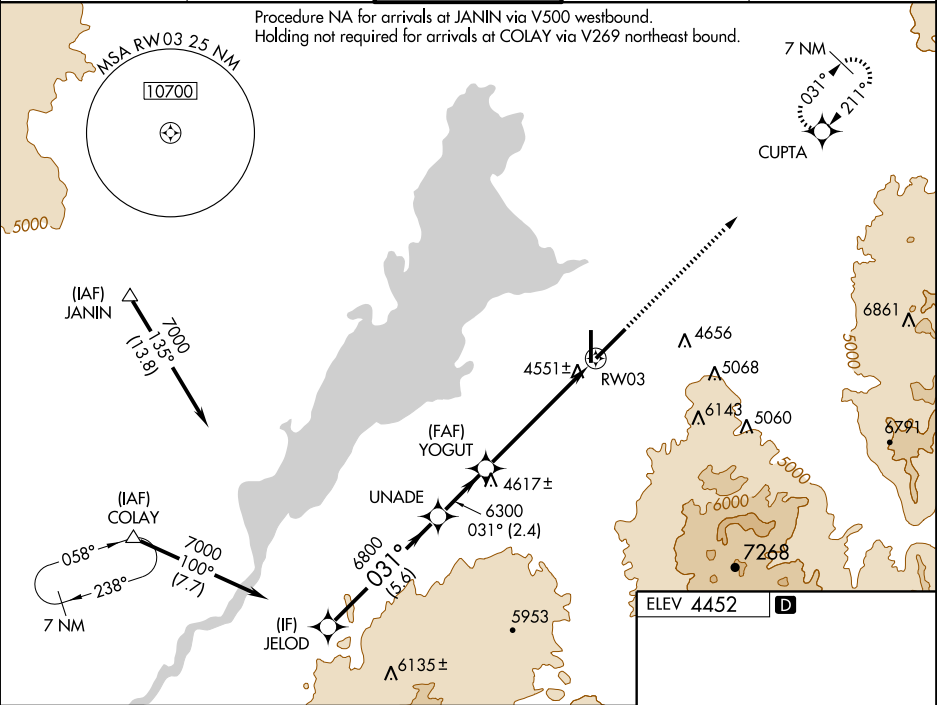
WAAS CH 97502 W03A	APP CRS 031°	Rwy Idg TDZE Apt Elev	9060 4444 4452
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⚠ Inoperative table does not apply. Circling NA southeast of Rwy 3-21.
⚠ DME/DME RNP- 0.3 NA. Visibility reduction by helicopters NA.
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -23°C (9°F) or above 40°C (104°F). If local altimeter setting not received, use Idaho Falls Rgnl altimeter setting and increase all DAs/MDAs 140 feet.
Baro-VNAV NA when using Idaho Falls Rgnl altimeter setting.

ODALS

MISSED APPROACH:
Climb to 7300 direct
CUPTA and hold.

ATIS 135.625	SALT LAKE CENTER 128.35 239.25	POCATELLO TOWER★ 119.1 (CTAF) 0 257.8	GND CON 121.9	UNICOM 122.95
------------------------	--	---	-------------------------	-------------------------



CATEGORY	A	B	C	D
LPV DA	4694-1 250 (300-1)			
LNAV/VNAV DA	4978-1¾ 534 (600-1¾)			
LNAV MDA	4880-1 436 (500-1)	4880-1¼ 436 (500-1¼)	4880-1½ 436 (500-1½)	
CIRCLING	4980-1 528 (600-1)	4980-1½ 528 (600-1½)	5020-2 568 (600-2)	

ELEV 4452 **D**

REIL Rwy 17
HIRL Rwy 3-21
MIRL Rwy 17-35

WAAS CH 78212 W21A	APP CRS 211°	Rwy Idg TDZE Apt Elev 9060 4452 4452
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RNAV (GPS) RWY 21

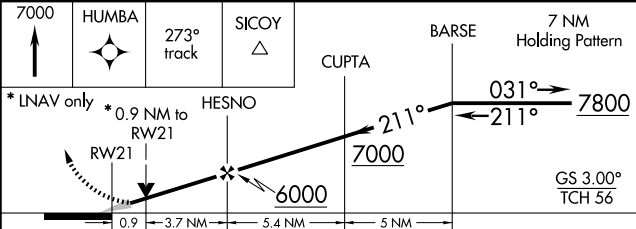
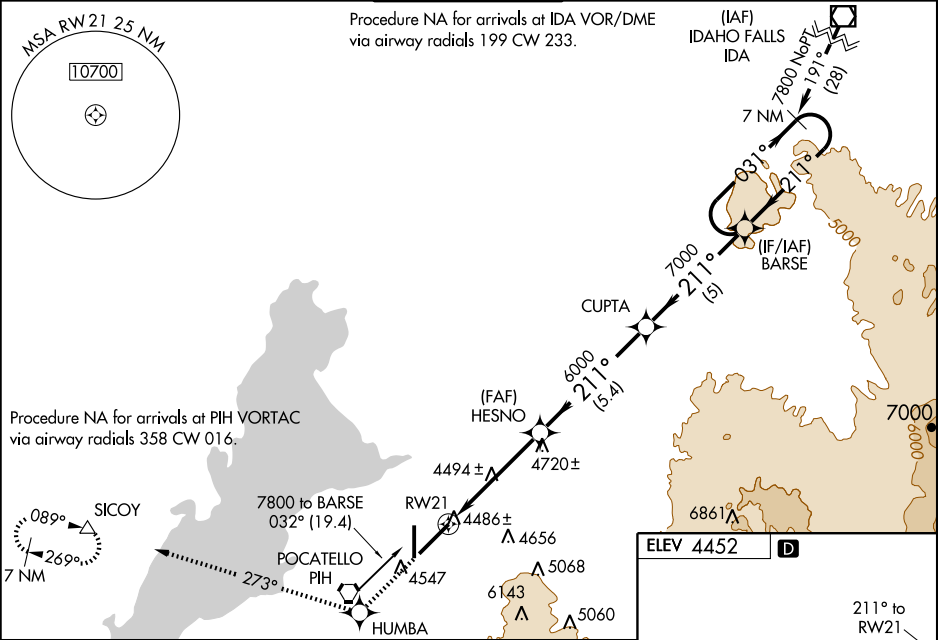
POCATELLO RGNL (PIH)

⚠ Inoperative table does not apply to LNAV Cat D. For inoperative MALSR when using Idaho Falls altimeter setting, increase LPV all Cats visibility to 1 1/4 mile.
⚠ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -23°C (-9°F) or above 39°C (102°F). DME/DME RNP-0.3 NA. When local altimeter setting not received, use Idaho Falls altimeter setting and increase all DA and MDA 140 feet; increase LPV all Cats, LNAV Cat C, and Circling Cat C and D visibility 1/2 mile, increase LNAV/VNAV all Cats visibility 1/2 mile.
Baro-VNAV and VDP NA when using Idaho Falls altimeter setting.
Circling NA southeast of Rwy 3-21. Circling NA at night to Rwy 17-35.

MALSR

MISSED APPROACH:
Climb to 7000 direct HUMBA and via 273° track to SICOY and hold.

ATIS 135.625	SALT LAKE CENTER 128.35 239.25	POCATELLO TOWER★ 119.1 (CTAF) 0 257.8	GND CON 121.9	UNICOM 122.95
------------------------	--	---	-------------------------	-------------------------



CATEGORY	A	B	C	D
LPV DA		4652/24	200 (200-1/2)	
LNAV/VNAV DA		4797/40	345 (400-3/4)	
LNAV MDA		4780/24	328 (400-1/2)	4780/50 328 (400-1)
CIRCLING	4820-1 368 (400-1)	4920-1 468 (500-1)	4920-1 1/2 468 (500-1 1/2)	5020-2 568 (600-2)

ELEV 4452

D

REIL Rwy 17
HIRL Rwy 3-21
MIRL Rwy 17-35

VORTAC PIH <u>112.6</u> Chan 73	APP CRS 211°	Rwy Idg 9060 TDZE 4452 Apt Elev 4452
--	------------------------	---

VOR/DME or TACAN RWY 21

POCATELLO RGNL (PIH)

T Circling NA Southeast of Rwy 3-21.
For inoperative MALSR increase S-21 Cat. D
and E visibility to 1¼.

MALSR
A5

MISSED APPROACH: Climb to 7400 direct PIH VORTAC, continue climb via PIH VORTAC R-269, then right turn direct PIH VORTAC and hold (TACAN aircraft continue via PIH VORTAC R-269 to SICOY/PIH 10 DME and hold W, right turns, 089° inbound).

ATIS
135.625

SALT LAKE CENTER
128.35 239.25

POCATELLO TOWER★
119.1 (CTAF) **L** 257.8

GND CON
121.9

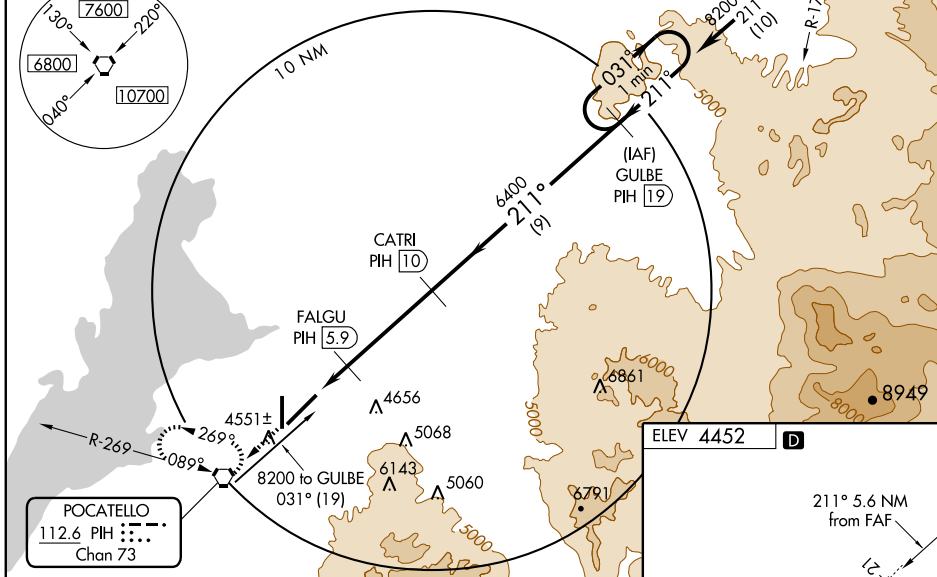
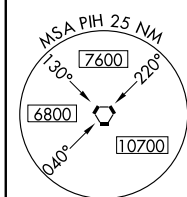
UNICOM
122.95

TACAN MISSED APCH FIX

Hold in lieu not authorized for Cat E.

IDAHO FALLS
113.85 IDA $\frac{\ddot{\cdot}\cdot}{\cdot\cdot}$
Chan 85 (Y)

(IAF)
JEGLO INT
PIH 29
IDA 20.1



ELEV 4452

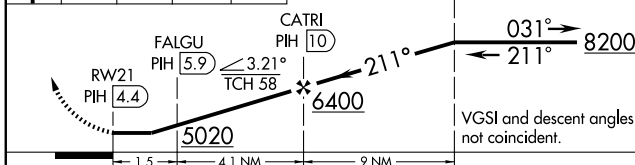
D

211° 5.6 NM

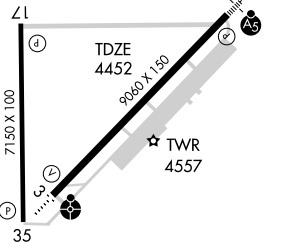
from FAF \



GULBE One Minute
PIH 19 Holding Pattern



VGSI and descent angles
not coincident.



CATEGORY	A	B	C	D	E
S-21	4840/24 388 (400-½)			4840/50 388 (400-1)	
CIRCLING	4840-1 388 (400-1)	4920-1 468 (500-1)	4920-1½ 468 (500-1½)	5020-2	568 (600-2)

REIL Rwy 17
HIRL Rwy 3-21 **L**
MIRL Rwy 17-35 **L**

POCATELLO, IDAHO

AL-327 (FAA)

VORTAC PIH 112.6 Chan 73	APP CRS 033°	Rwy Idg TDZE Apt Elev 9060 4444 4452
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VOR or TACAN RWY 3

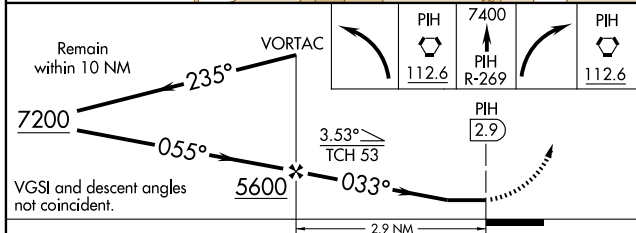
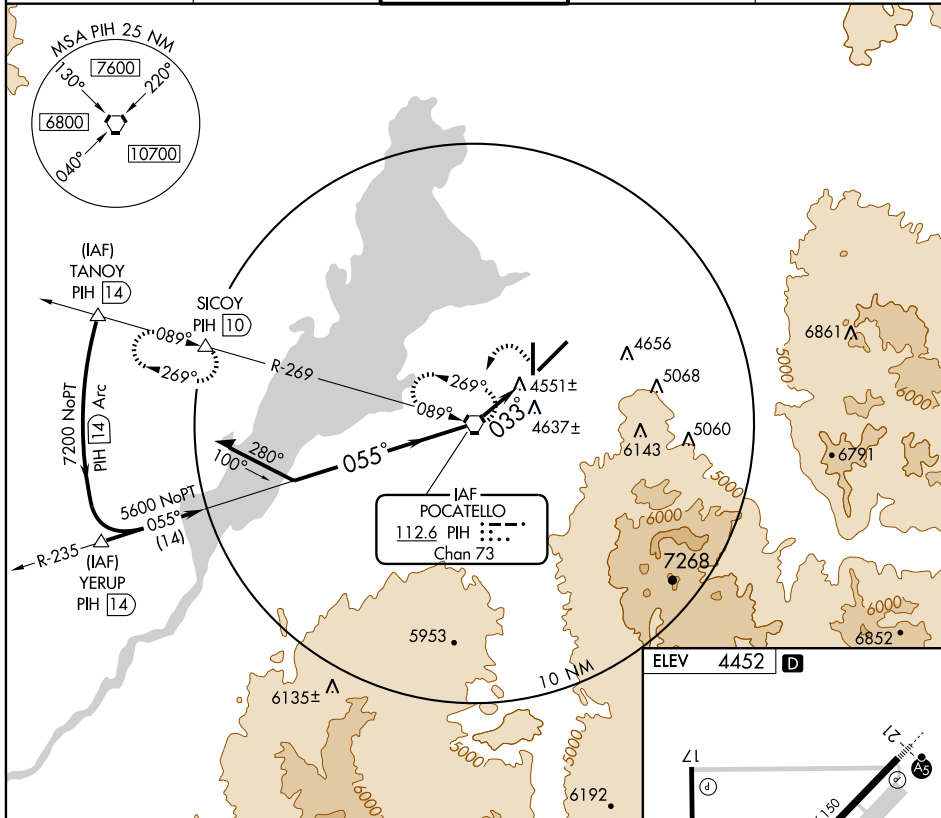
POCATELLO RGNL (PIH)

▼ Circling not authorized Southeast of Rwy 3-21.
Inoperative table does not apply.

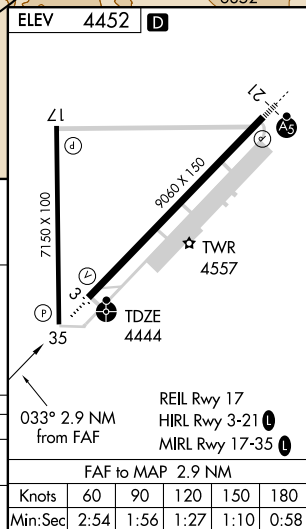


MISSED APPROACH: Climbing left turn direct PIH VORTAC, continue to 7400 via PIH VORTAC R-269, then right turn direct PIH VORTAC and hold (TACAN aircraft continue via R-269 to SICOY/PIH 10 DME and hold W, right turns, 089° inbound).

ATIS 135.625	SALT LAKE CENTER 128.35 239.25	POCATELLO TOWER* 119.1 (CTAF) 0 257.8	GND CON 121.9	UNICOM 122.95
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CATEGORY	A	B	C	D
S-3	4940-1	496 (500-1)		NA
CIRCLING	4940-1 488 (500-1)		4940-1½ 488 (500-1½)	NA



FAF to MAP 2.9 NM					
Knots	60	90	120	150	180
Min:Sec	2:54	1:56	1:27	1:10	0:58

NW-1. 08 APR 2010 to 06 MAY 2010

APP CRS 351°	Rwy Idg TDZE Apt Elev	3900 4858 4858
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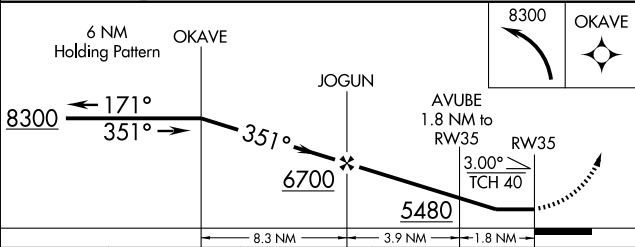
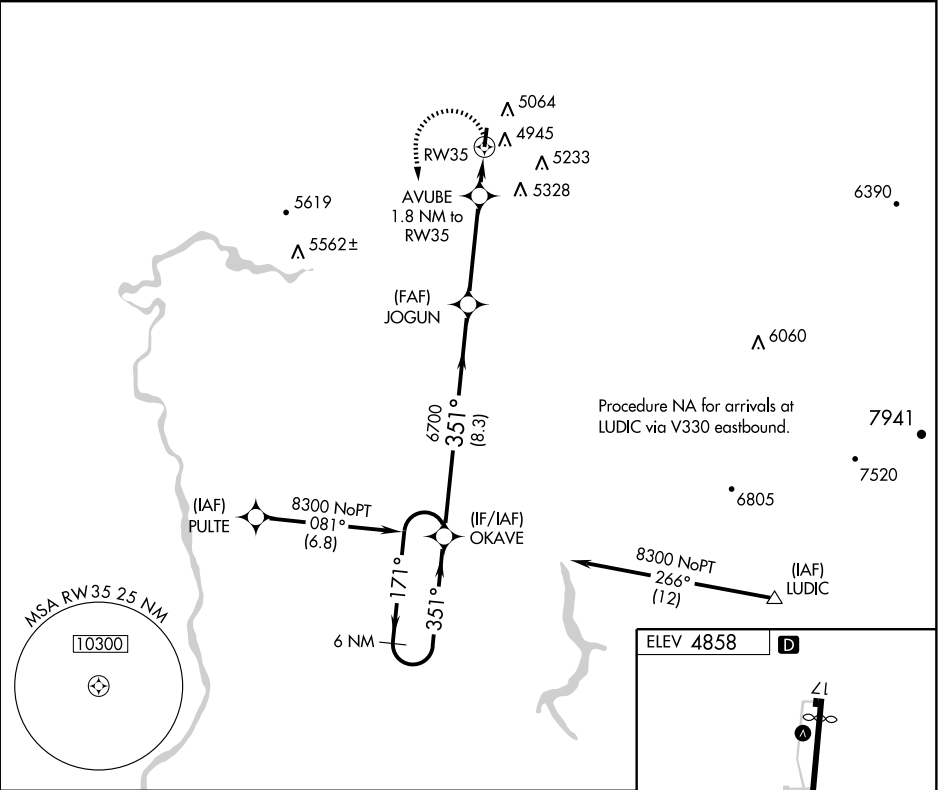
RNAV (GPS) RWY 35
REXBURG-MADISON COUNTY (R.XE)

▼
▲

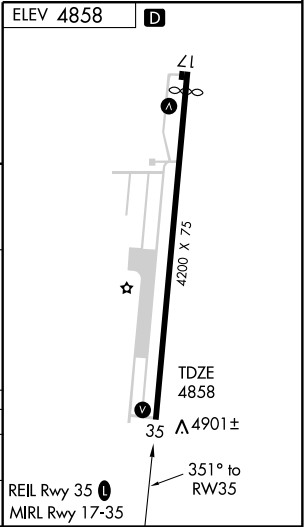
If local altimeter setting not received, use Idaho Falls
Rgnl altimeter setting and increase all MDAs 80 feet.
When VGSI inoperative, procedure NA at night.
DME/DME RNP-0.3 NA.

MISSED APPROACH: Climbing left turn
to 8300 direct OKAVE and hold.

ASOS 135.075	SALT LAKE CENTER 128.35 239.25	UNICOM 122.8 (CTAF) 0
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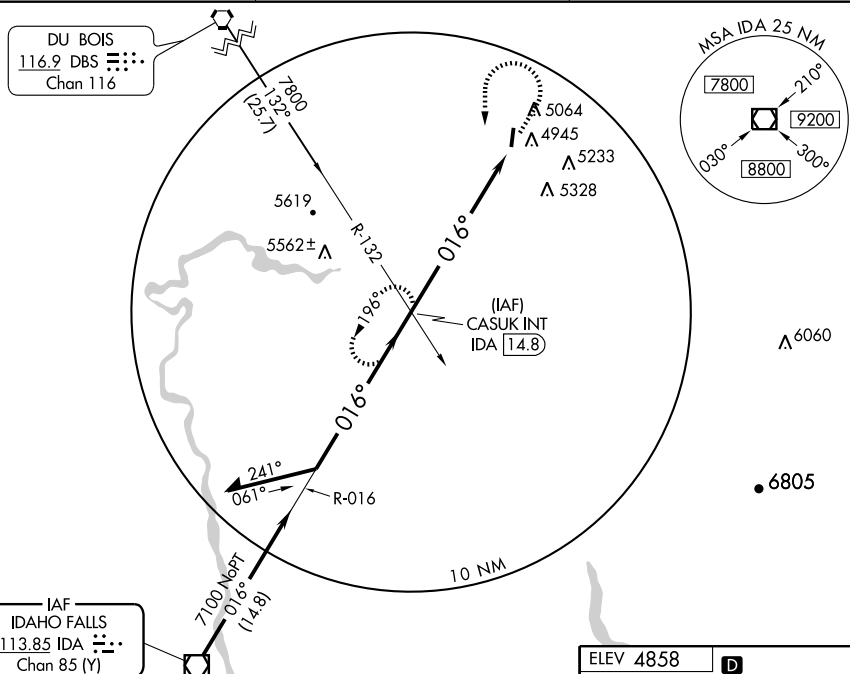
CATEGORY	A	B	C	D
RNAV MDA	5260-1	402 (500-1)	5260-1¼	402 (500-1¼)
CIRCLING	5380-1 522 (600-1)	5580-1 722 (800-1)	5580-2 722 (800-2)	5620-2½ 762 (800-2½)



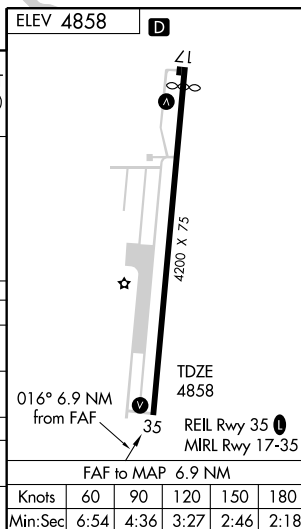
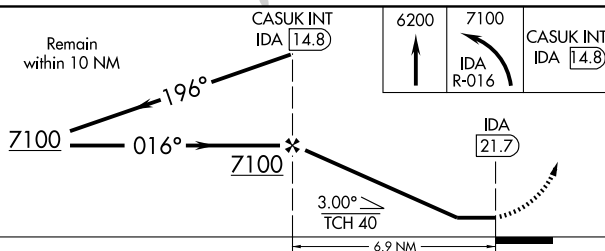
VOR RWY 35
REXBURG-MADISON COUNTY (RXE)

MISSED APPROACH: Climb to 6200 then climbing left turn to 7100 via IDA R-016 to CASUK Int/IDA 14.8 DME and hold.

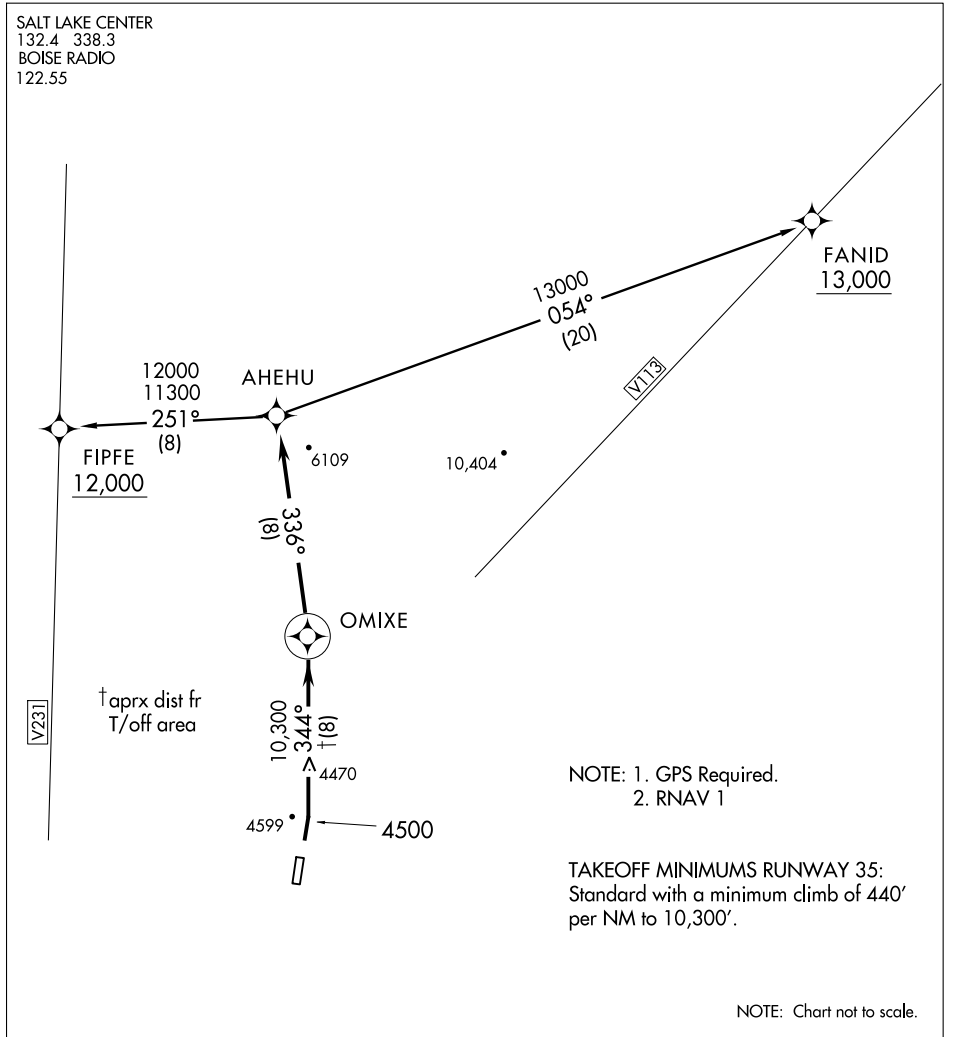
UNICOM
122.8 (CTAF) **L**



NW-1. 08 APR 2010 to 06 MAY 2010



AHEHU ONE DEPARTURE (RNAV)



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 17: NA.

TAKE-OFF RUNWAY 35: Climb runway heading to 4500', then climbing left turn to 10,300' via 344° course to OMIXE WP, then via 336° course to AHEHU WP.
Thence

FANID TRANSITION (AHEHU1.FANID):

FIPFE TRANSITION (AHEHU1.FIPFE):

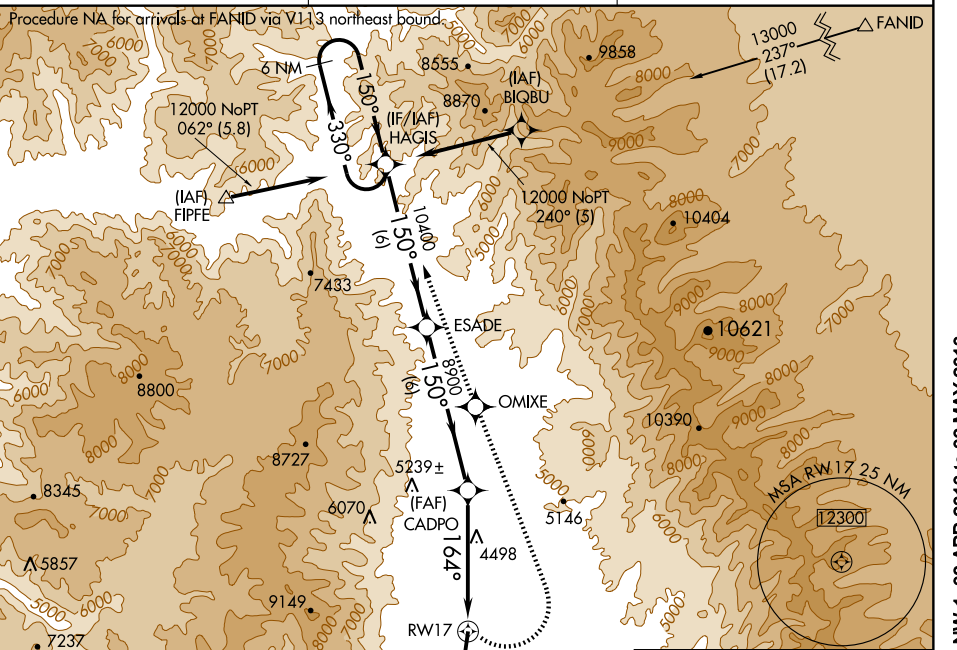
▼

▲NA

DME/DME RNP -0.3 NA.

MISSED APPROACH: Climbing left turn to 12000 direct OMIXE and via 324° track to HAGIS and hold. Continue climb-in-hold to 12000.

AWOS-3 135.075	SALT LAKE CENTER 132.4 338.3	UNICOM 122.8 (CTAF) 0
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ELEV 4043

164° to RW17

31.50 X 60

35

REIL Rwy 17

MIRL Rwy 17-35

6 NM Holding Pattern

HAGIS

12000

330°

150°

ESAD

10400

CADPO

9.00° TCH 55

RW17

8900

164°

VGSI and descent angles not coincident.

CATEGORY	A	B	C	D
CIRCLING	7400-1¼ 3357 (3400-1¼)	7400-1½ 3357 (3400-1½)	NA	

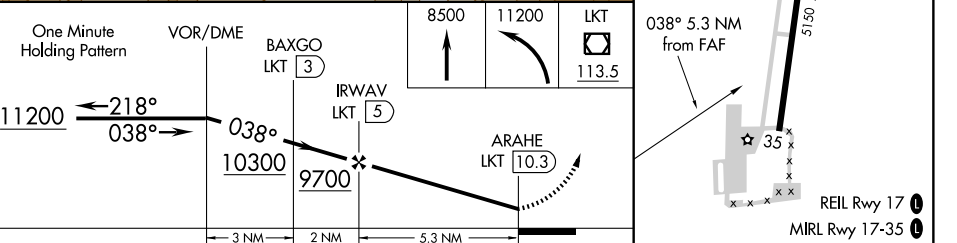
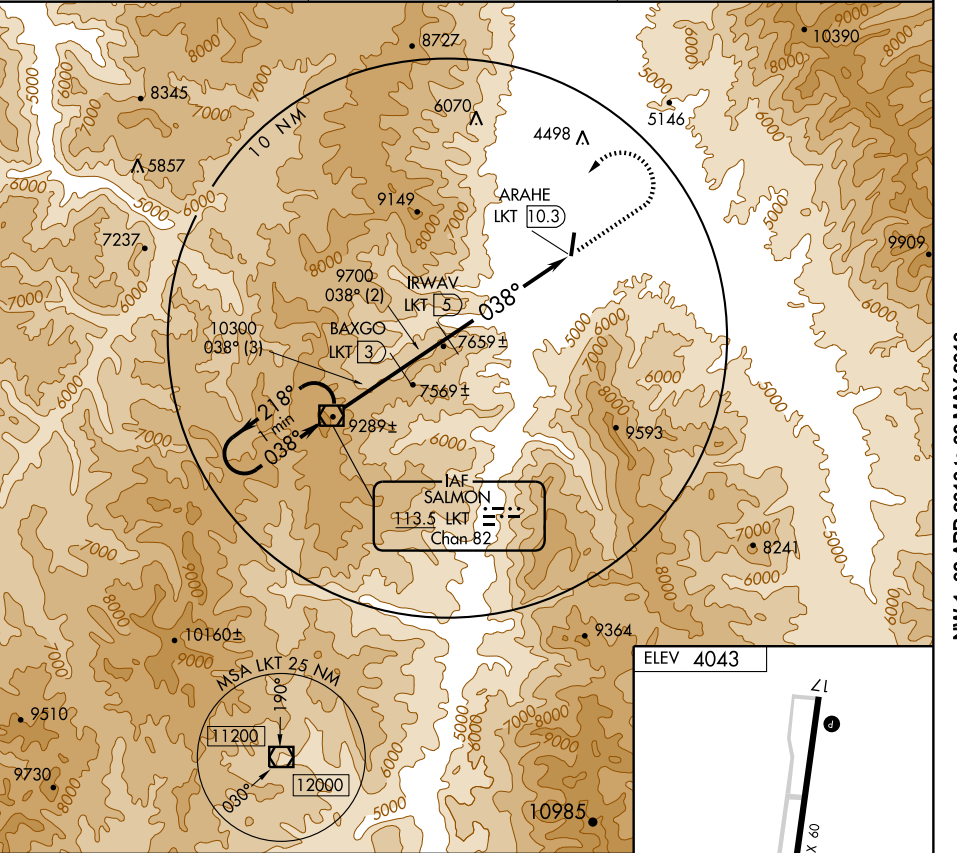
NW-1, 08 APR 2010 to 06 MAY 2010

▼

▲NA

MISSED APPROACH: Climb to 8500 then climbing left turn to 11200 direct LKT VOR/DME and hold.

AWOS-3 135.075	SALT LAKE CENTER 132.4 338.3	UNICOM 122.8 (CTAF) 0
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CATEGORY	A	B	C	D	Knots	60	90	120	150	180
CIRCLING	8000-1¼ 3957 (4000-1¼)	8000-1½ 3957 (4000-1½)	8000-3 3957 (4000-3)	NA	Min:Sec					

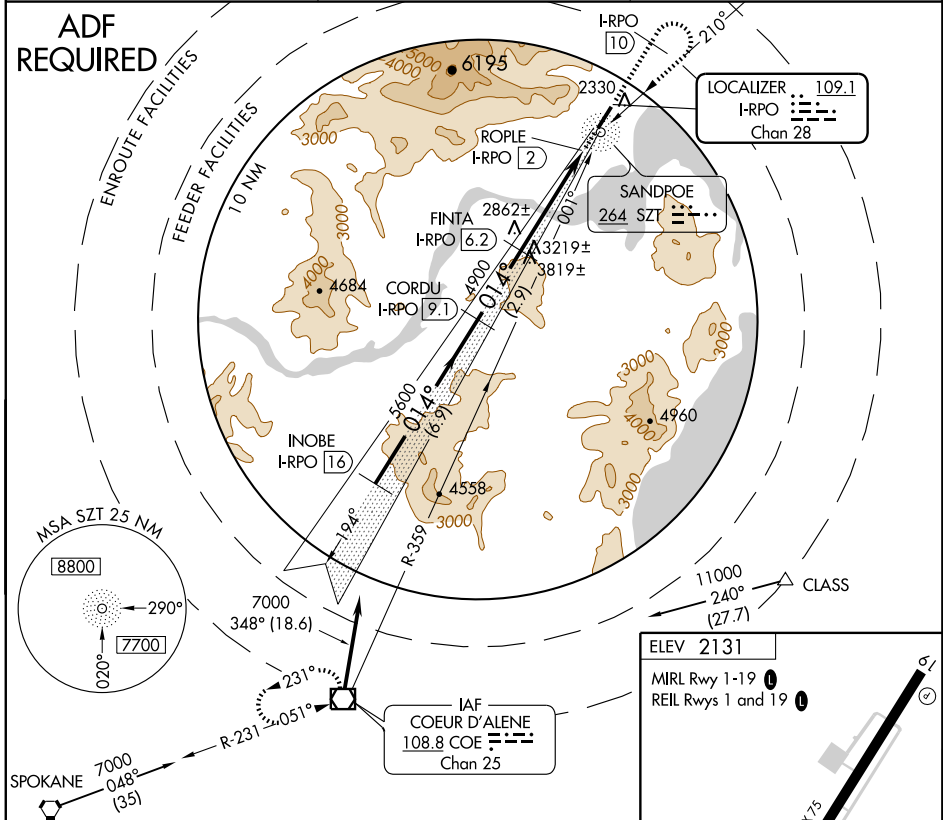
LOC/DME I-RPO <u>109.1</u> Chan 28	APP CRS 014°	Rwy Idg TDZE Apt Elev N/A N/A 2131
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LOC/DME-A
SANDPOINT (SZT)

T
ANA Circling not authorized west of Rwy 1-19.

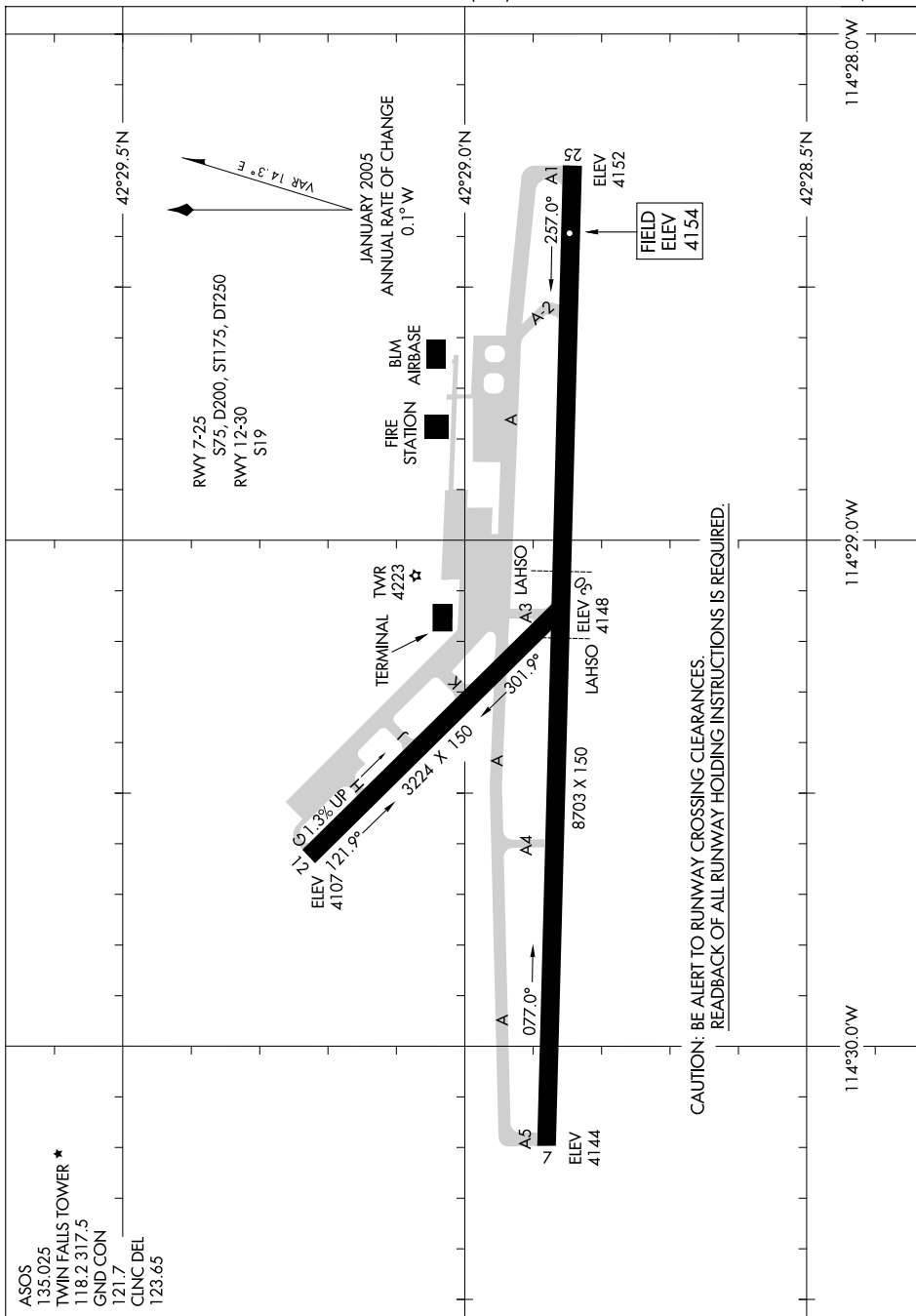
MISSED APPROACH: Climb to 8000 via heading 014° to I-RPO 10 DME, then climbing right turn via SZT bearing 030° to SZT NDB, cross SZT NDB at 8000, then via SZT bearing 181° and COE R-359 to COE VOR/DME and hold.

AWOS-3 135.425	SEATTLE CENTER 123.95 282.3	UNICOM 122.7 (CTAF) 0
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INOBE I-RPO 16		8000 ↑ 014°		I-RPO 10		SZT 030°		SZT 181° COE R-359		COE 108.8	
7000 ↓ 014°		CORDU I-RPO 9.1		FINTA I-RPO 6.2		ROPE I-RPO 2		4900 *		5600	
Procedure Turn NA		6.9 NM		2.9 NM		4.2 NM		0.9 NM			
CATEGORY	A		B		C		D				
CIRCLING	3120-1¼ 989 (1000-1¼)		3120-1½ 989 (1000-1½)		3120-3		989 (1000-3)				
	Knots Min:Sec		60 90		120 150		180				

AIRPORT DIAGRAM

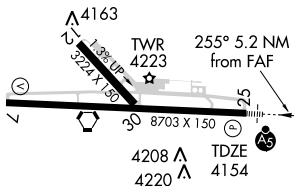
TWIN FALLS/JOSLIN FIELD-MAGIC VALLEY RGNL (TWF)
AL-885 (FAA) TWIN FALLS, IDAHO

NW-1, 08 APR 2010 to 06 MAY 2010

TWIN FALLS/JOSLIN FIELD-MAGIC VALLEY RGNL (TWF)

MISSED APPROACH: Climb to 4600 then climbing right turn to 7000 via heading 020° and TWF VORTAC R-349 to TOXEE INT/TWF 13 DME and hold.

UNICOM
122 95



REIL Rwy 7 **L**
HIRL Rwy 7-25 **L**

FAF to MAP 5.2 NM

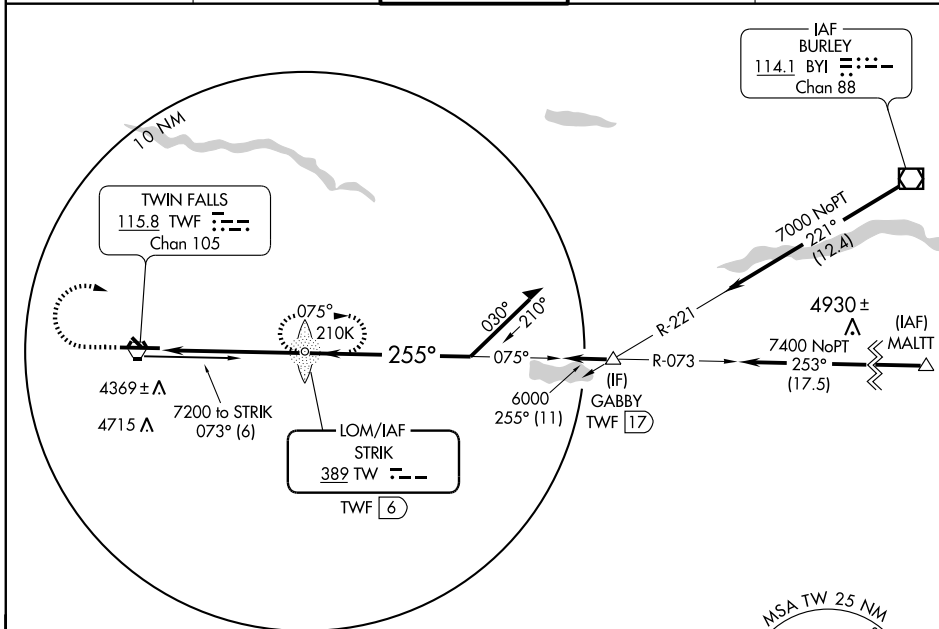
Knots	60	90	120	150	180
Min:Sec	5:12	3:28	2:36	2:05	1:44

NDB RWY 25

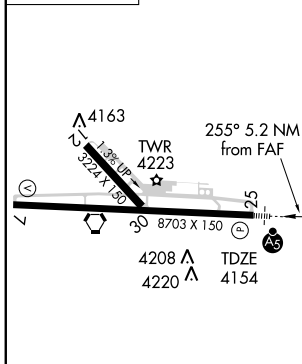
TWIN FALLS/JOSLIN FIELD-MAGIC VALLEY RGNL (TWF)

LOM TW 389	APP CRS 255°	Rwy Idg 8703	TDZE 4154	Apt Elev 4154
When local altimeter setting not received, use Jerome altimeter setting and increase all MDA 60 feet and Circling Cats C and D visibility ¼ mile.				
MALS 				
MISSED APPROACH: Climb to 4800 then climbing right turn to 6000 direct STRIK LOM and hold.				

ASOS 135.025	TWIN FALLS APP CON * 126.7 353.75	TWIN FALLS TOWER * 118.2 (CTAF) 0 317.5	GND CON 121.7	UNICOM 122.95
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ELEV 4154


 REIL Rwy 7
 HIRL Rwy 7-25

FAF to MAP 5.2 NM					
Knots	60	90	120	150	180
Min:Sec	5:12	3:28	2:36	2:05	1:44

4800 6000 TW STRIK LOM TWF (6) Remain within 10 NM VGSJ and descent angles not coincident. TWF 0.8 3.26° TCH 55° 5.2 NM 075° 255° 7000 6000				
CATEGORY	A	B	C	D
S-25	4680-¾ 526 (600-¾)		4680-1 526 (600-1)	4680-1½ 526 (600-1½)
CIRCLING	4680-1 526 (600-1)	4720-1 566 (600-1)	4740-1½ 586 (600-1½)	4800-2 646 (700-2)

WAAS CH 40211 W07A	APP CRS 075°	Rwy Idg TDZE Apt Elev	8703 4149 4154
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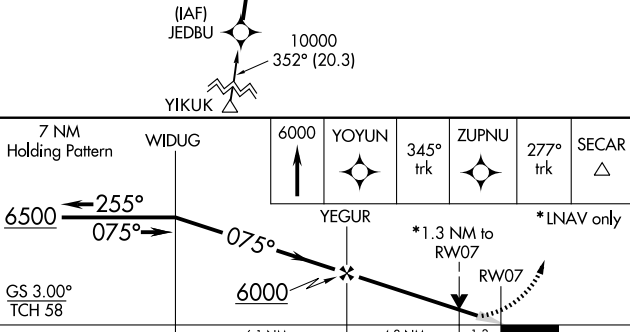
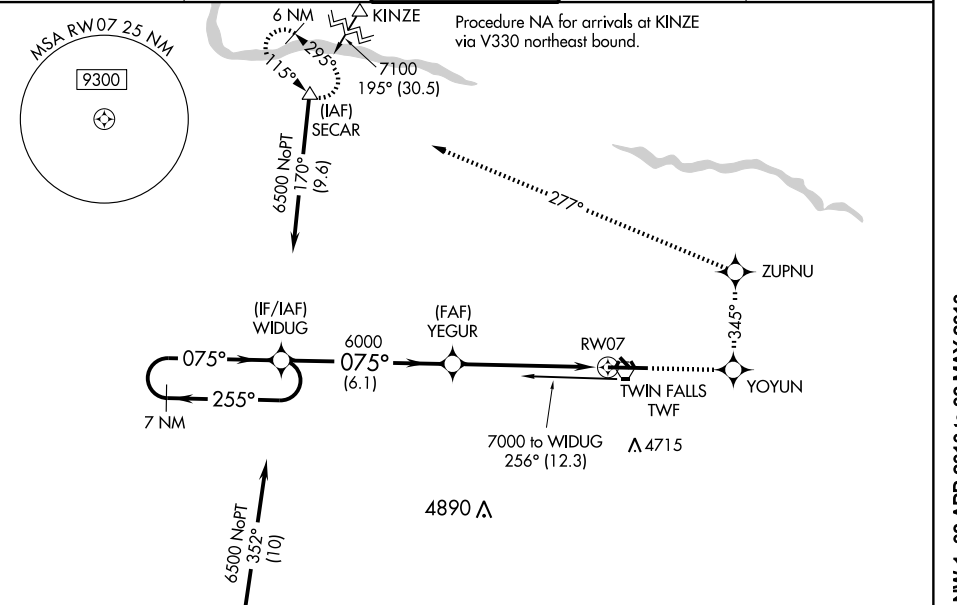
Baro-VNAV NA when using Jerome altimeter setting.

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -23°C (-9°F) or above 40°C (104°F). DME/DME RNP-0.3 NA.

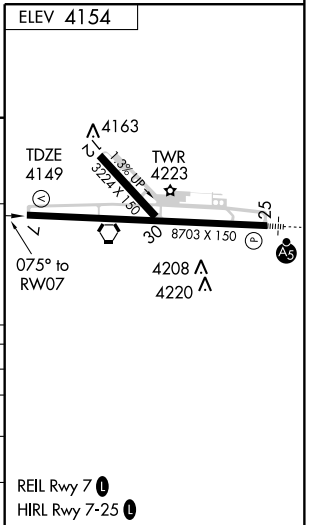
When local altimeter setting not received, use Jerome altimeter setting and increase all DA/MDA 60 feet and increase LPV and LNAV/VNAV all Cats, and LNAV Cats C and D visibility ¼ mile. VDP NA when using Jerome altimeter setting.

MISSED APPROACH: Climb to 6000 direct YOYUN and via 345° track to ZUPNU and via 277° track to SECAR and hold.

ASOS 135.025	TWIN FALLS APP CON* 126.7 353.75	TWIN FALLS TOWER* 118.2 (CTAF) 317.5	GND CON 121.7	UNICOM 122.95
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CATEGORY	A	B	C	D
LPV DA	4399-¾ 250 (300-¾)			
LNAV/VNAV DA	4668-1¾ 519 (600-1¾)			
LNAV MDA	4620-1	471 (500-1)	4620-1½ 471 (500-1½)	4620-1½ 471 (500-1½)
CIRCLING	4680-1 526 (600-1)	4720-1 566 (600-1)	4740-1½ 586 (600-1½)	4800-2 646 (700-2)



REIL Rwy 7
HIRL Rwy 7-25

NW-1. 08 APR 2010 to 06 MAY 2010

WAAS
CH **56311**
W25A

APP CRS
255°

Rwy Idg
TDZE
Apt Elev

8703
4154
4154

Baro-VNAV NA when using Jerome altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -23°C (-9°F) or above 40°C (104°F). DME/DME RNP-0.3 NA. For inoperative MALSR, increase LNAV visibility Cat D to 1 mile. When local altimeter setting not received, use Jerome altimeter setting and increase all DA/MDA 60 feet and all visibilities ¾ mile. When using Jerome altimeter setting, inoperative table does not apply. VDP NA when using Jerome altimeter setting.

MALSR

MISSED APPROACH: Climb to 6000 direct UCUVU and via 301° track to SECAR and hold.

ASOS 135.025	TWIN FALLS APP CON * 126.7 353.75	TWIN FALLS TOWER * 118.2 (CTAF) 0 317.5	GND CON 121.7	UNICOM 122.95
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MISSED APCH FIX

ELEV 4154

REIL Rwy 7	HIRL Rwy 7-25					
6000	UCUVU	301° trk	SECAR	VUPCU	SOREE	7 NM Holding Pattern
*INAV only						
*1.1 NM to RW25						
RW25						
1.1 NM 4.8 NM 6.3 NM						
CATEGORY	A	B	C	D		
LPV DA	4354-½		200 (200-½)			
LNAV/VNAV DA	4531-¾		377 (400-¾)			
LNAV MDA	4560-½	406 (500-½)	4560-¾	406 (500-¾)	4560-1	406 (500-1)
CIRCLING	4680-1	526 (600-1)	4720-1	566 (600-1)	4740-1½	586 (600-1½)
					4800-2	646 (700-2)

SNAKO ONE DEPARTURE

GND CON

121.7

TWIN FALLS TOWER*

118.2 317.5

TWIN FALLS DEP CON*

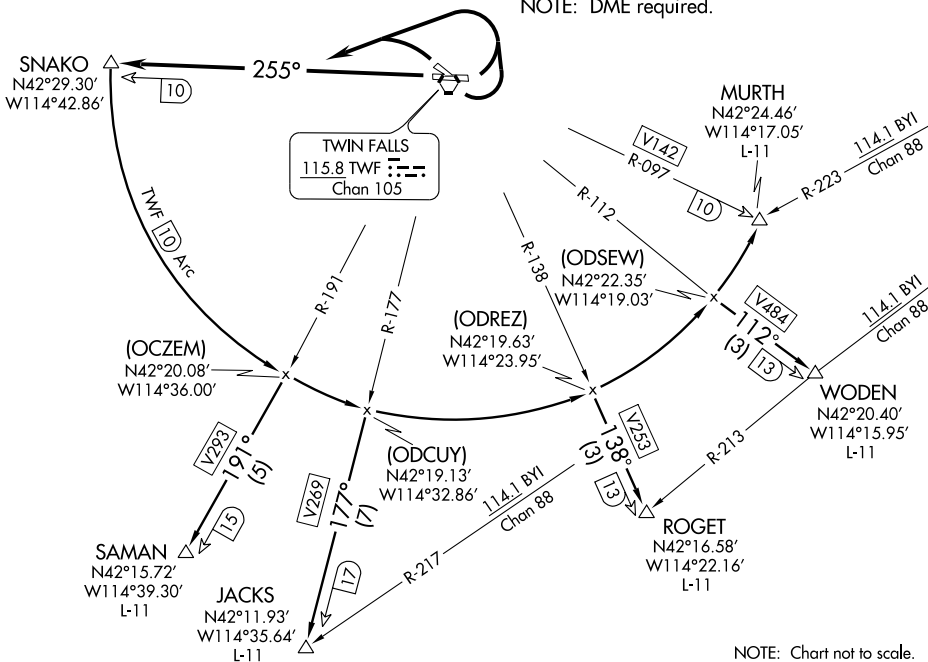
126.7 353.75

ASOS 135.025

NOTE: ROGET transition requires a minimum climb of 290' per NM to 7600'.

NOTE: MURTH transition requires a minimum climb of 210' per NM to 10500'.

NOTE: DME required.



NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 25: Climb runway heading, thence. . .TAKE-OFF RUNWAYS 7, 30, 12: Climbing left turn, thence. . .

. . . intercept and proceed via TWF R-255 to SNAKO DME Fix, thence via (assigned transition).

JACKS TRANSITION (SNAKO1.JACKS): From over SNAKO DME Fix via 10 DME Arc and V269 to JACKS INT. Thence via (assigned route).MURTH TRANSITION (SNAKO1.MURTH): From over SNAKO DME Fix via 10 DME Arc and V142 to MURTH INT. Thence via (assigned route).ROGET TRANSITION (SNAKO1.ROGET): From over SNAKO DME Fix via 10 DME Arc and V253 to ROGET INT. Thence via (assigned route).SAMAN TRANSITION (SNAKO1.SAMAN): From over SNAKO DME Fix via 10 DME Arc and V293 to SAMAN INT. Thence via (assigned route).WODEN TRANSITION (SNAKO1.WODEN): From over SNAKO DME Fix via 10 DME Arc and V484 to WODEN INT. Thence via (assigned route).

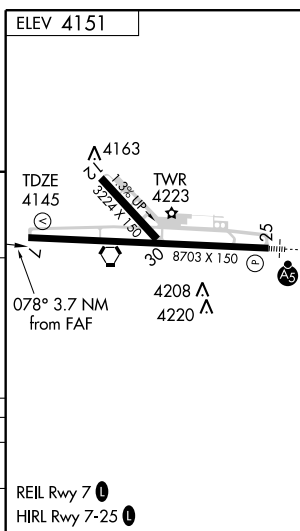
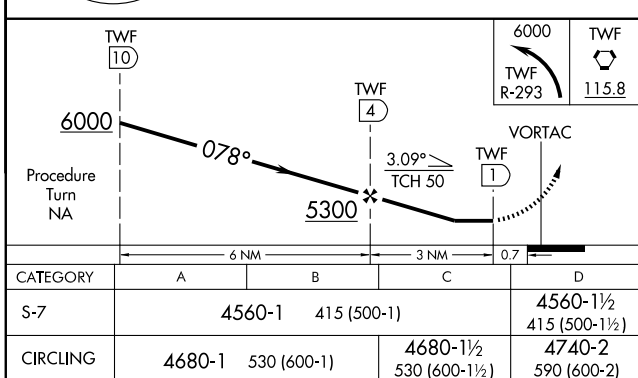
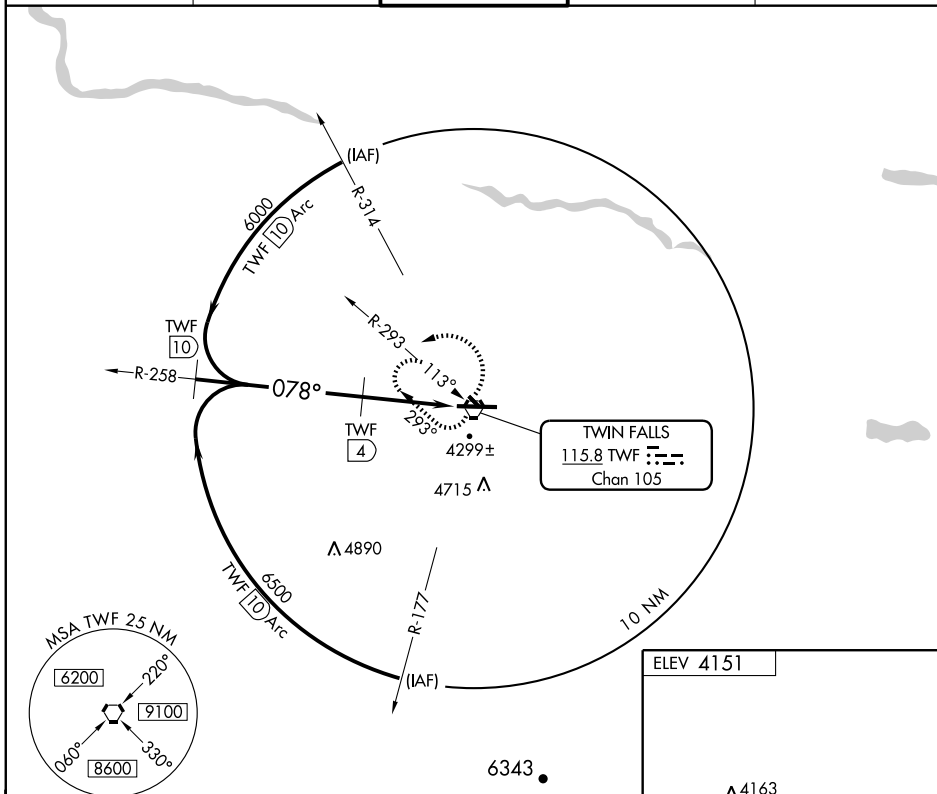
VOR/DME RWY 7

TWIN FALLS/JOSLIN FIELD-MAGIC VALLEY RGNL (TWF)

VORTAC TWF	APP CRS	Rwy Idg	8703
115.8	078°	TDZE	4145
Chan 105		Apt Elev	4151

MISSED APPROACH: Climbing left turn to 6000 on TWF R-293 within 10 NM, return to VORTAC and hold.

ASOS 135.025	TWIN FALLS APP CON ★ 126.7 353.75	TWIN FALLS TOWER ★ 118.2 (CTAF) 317.5	GND CON 121.7	UNICOM 122.95
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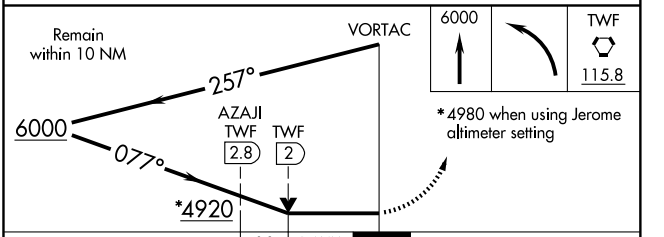
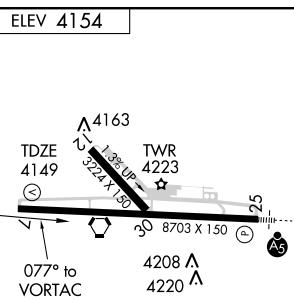
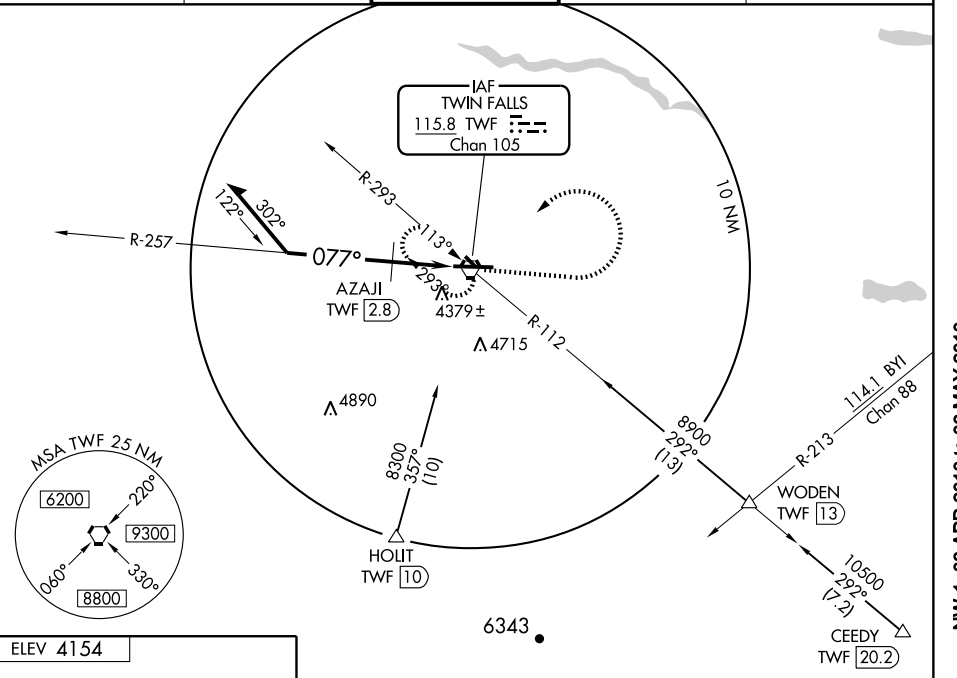


When local altimeter setting not received, use Jerome altimeter setting and increase all MDA 60 feet and visibility Cat C and D ¼ mile.

VDP NA when using Jerome altimeter setting.

MISSED APPROACH: Climb to 6000 then left turn direct TWF VORTAC and hold.

ASOS 135.025	TWIN FALLS APP CON* 126.7 353.75	TWIN FALLS TOWER* 118.2 (CTAF) 317.5	GND CON 121.7	UNICOM 122.95
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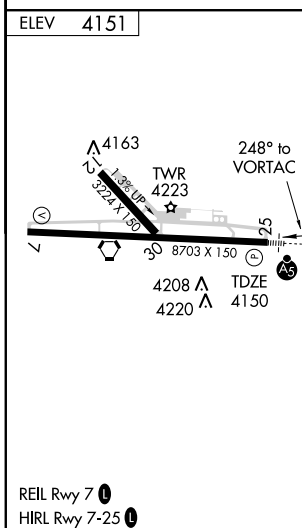
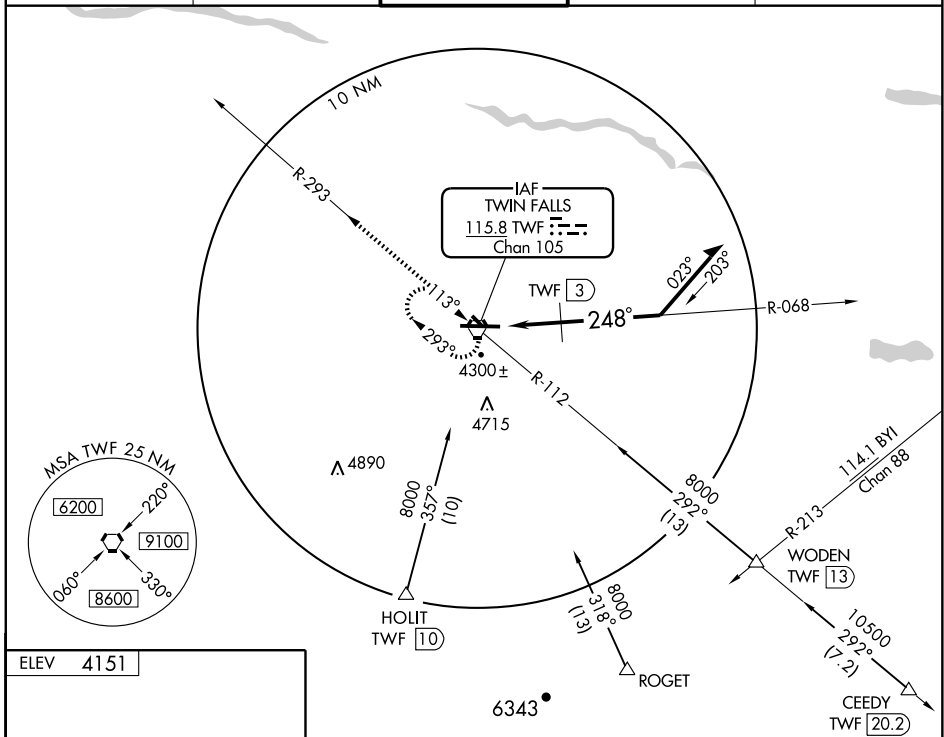




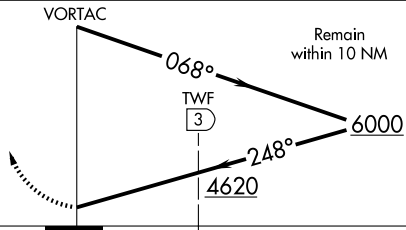
CATEGORY	A	B	C	D
S-7	4920-1 771 (800-1)	4920-1 ¼ 771 (800-1 ¼)	4920-2 ¼ 771 (800-2 ¼)	4920-2 ½ 771 (800-2 ½)
CIRCLING	4920-1 766 (800-1)	4920-1 ¼ 766 (800-1 ¼)	4920-2 ¼ 766 (800-2 ¼)	4920-2 ½ 766 (800-2 ½)
AZAJI FIX MINIMUMS				
S-7	4640-1	491 (500-1)	4640-1 ¼ 491 (500-1 ¼)	4640-1 ½ 491 (500-1 ½)
CIRCLING	4680-1 526 (600-1)	4720-1 566 (600-1)	4740-1 ½ 586 (600-1 ½)	4800-2 646 (700-2)

VORTAC TWF 115.8 Chan 105	APP CRS 248°	Rwy Idg 8703 TDZE 4150 Apt Elev 4151
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TWIN FALLS/JOSLIN FIELD-MAGIC VALLEY RGNL (TWF)

		MALSR 	MISSED APPROACH: Climbing right turn to 6000 on R-293 TWF VORTAC within 10 NM, return to VORTAC and hold.	
ASOS 135.025	TWIN FALLS APP CON ★ 126.7 353.75	TWIN FALLS TOWER ★ 118.2 (CTAF) 317.5	GND CON 121.7	UNICOM 122.95



<div>6000</div> <div>TWF R-293</div>		<div>TWF</div> <div>TWF 115.8</div>	<div>VORTAC</div> <div><p>Diagram showing a VORTAC station with a 3 NM distance to a point. Two bearing lines are shown: 068° and 248°. A TWF symbol is shown with the number 3. The number 6000 is shown. The number 4620 is shown. The text 'Remain within 10 NM' is shown.</p></div>	
CATEGORY	A	B	C	D
S-25	4620-½	470 (500-½)	4620-¾ 470 (500-¾)	4620-1¼ 470 (500-1¼)
CIRCLING	4680-1	530 (600-1)	4680-1½ 530 (600-1½)	4740-2 590 (600-2)
DME MINIMA				
S-25	4560-½ 410 (500-½)			4560-1 410 (500-1)

▼

NA

DME/DME RNP-0.3 NA. Procedure NA at night.
Use Ontario altimeter setting; when not received, use Boise altimeter setting and increase all MDAs 160 feet.

MISSED APPROACH:

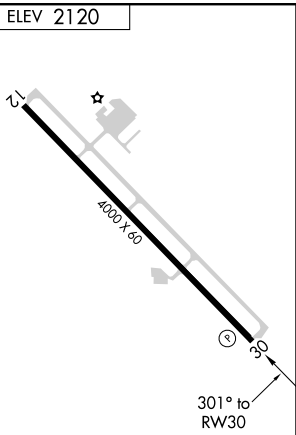
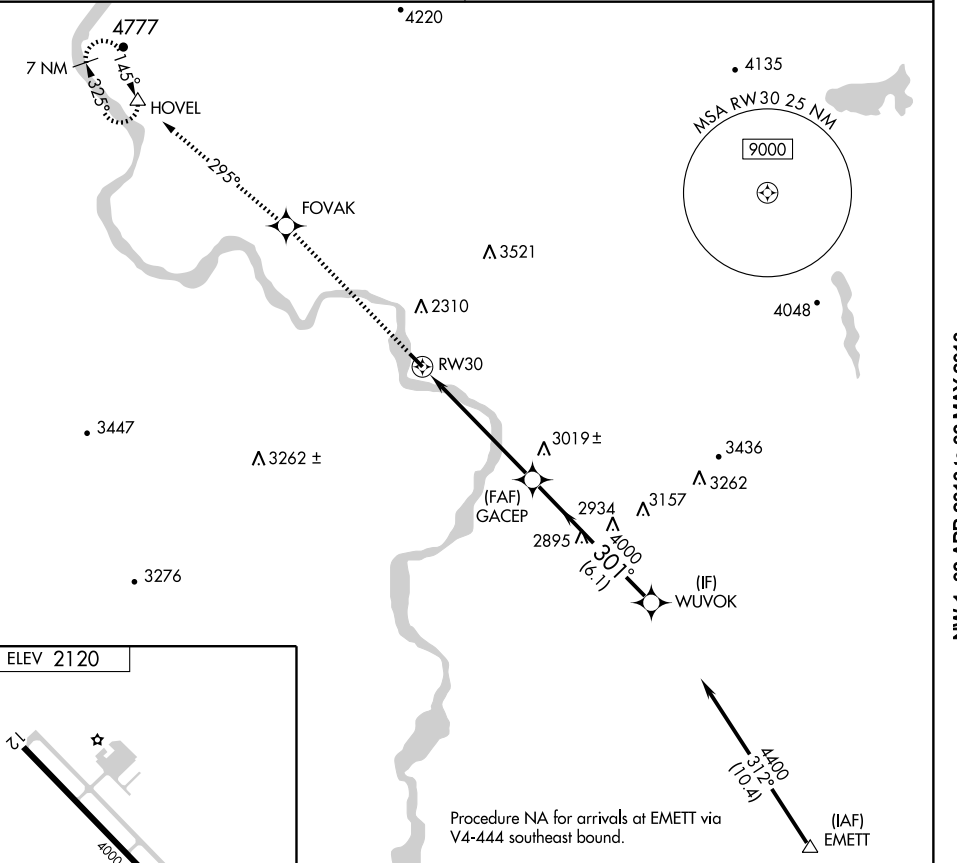
Climb to 9000 direct FOVAK and via 295° track to HOVEL and hold, continue climb-in-hold to 9000.

SALT LAKE CENTER

128.05 387.15

UNICOM

122.8 (CTAF) 1



MIRL Rwy 12-30 1

REIL Rwy 12 and 30 1

	9000	FOVAK	295° track	HOVEL					
					GACEP			WUVOK	
								4400	
								Procedure Turn NA	
CATEGORY	A	B	C	D					
CIRCLING	3480-1¼ 1360 (1400-1¼)	3480-1½ 1360 (1400-1½)	3480-3	1360 (1400-3)					

INSTRUMENT APPROACH PROCEDURE CHARTS



IFR ALTERNATE AIRPORT MINIMUMS

Standard alternate minimums for non precision approaches are 800-2 (NDB, VOR, LOC, TACAN, LDA, VORTAC, VOR/DME, ASR or WAAS LNAV); for precision approaches 600-2 (ILS or PAR). Airports within this geographical area that require alternate minimums other than standard or alternate minimums with restrictions are listed below. NA - means alternate minimums are not authorized due to unmonitored facility or absence of weather reporting service. Civil pilots see FAR 91. IFR Alternate Airport Minimums: Ceiling and Visibility Minimums not applicable to USA/USN/USAF. Pilots must review the IFR Alternate Airport Minimums Notes for alternate airfield suitability.

NAME ALTERNATE MINIMUMS

ALBANY, OR

ALBANY MUNI VOR/DME or GPS-A
NA except for operators with approved weather reporting service.

ARLINGTON, WA

ARLINGTON MUNI NDB or GPS Rwy 34
Category D, 800-2½.
NA when Paine Field control tower closed.

ASTORIA, OR

ASTORIA RGNL RNAV (GPS) Rwy 26¹²
VOR Rwy 8³

- ¹NA when local weather not available.
²Categories A, B, 900-2; Category C, 900-2½;
Category D, 900-3.
³Category C, 800-2½; Category D, 900-3.

AURORA, OR

AURORA STATE LOC Rwy 17¹
RNAV (GPS) Rwy 17²³
RNAV (GPS) Rwy 35²

- ¹Category D, 800-2½.
²NA when local weather not available.
³Categories A, B, 900-2; Category C, 900-2½;
Category D, 900-2½.

BAKER, MT

BAKER MUNI NDB Rwy 13¹
NDB Rwy 31²

- ¹Categories A,B, 1100-2; Categories C,D,
1100-3.
²Categories A,B, 1000-2; Category C, 1000-2½;
Category D, 1000-3.

BAKER CITY, OR

BAKER CITY MUNI RNAV (GPS) Rwy 13¹²
VOR-A¹³
VOR/DME Rwy 13²⁴

- ¹NA when local weather not available.
²Category D, 900-2½.
³Categories A,B, 1900-2; Categories C,D,
1900-3.
⁴NA when control zone not in effect.

NAME ALTERNATE MINIMUMS

BELLINGHAM, WA

BELLINGHAM INTL ILS or LOC Rwy 16
RNAV (GPS) Rwy 16
NA when local weather not available.

BIG PINEY, WY

MILEY MEMORIAL FIELD VOR Rwy 31
Category D, 800-2½.

BILLINGS, MT

BILLINGS LOGAN
INTL NDB Rwy 10L¹
RNAV (GPS) Rwy 10L²
RNAV (GPS) Rwy 28R³

- ¹Category D, 800-2½.
²Categories A,B,C,D, 800-2½.
³Categories A,B, 900-2; Categories C,D,
900-3.

BOISE, ID

BOISE AIR TERMINAL(GOWEN
FIELD) LOC BC Rwy 28L
RNAV (GPS) Y Rwy 10R
RNAV (GPS) Y Rwy 28L
VOR/DME or TACAN Rwy 10L
VOR/DME or TACAN Rwy 28L
Category E, 1000-3.

BOZEMAN, MT

GALLATIN FIELD VOR Rwy 12
Category C, 800-2½; Category D, 800-2½.

BREMERTON, WA

BREMERTON NATIONAL .. RNAV (GPS) Rwy 1
RNAV (GPS) Rwy 19¹
NA when local weather not available.

- ¹Categories A,B, 1200-2; Categories C,D,
1200-3.

NAME ALTERNATE MINIMUMS

BUFFALO, WY

JOHNSON COUNTY **RNAV (GPS) Rwy 31¹**
VOR/DME Rwy 31²

NA when local weather not available.

¹Category D, 800-2½.

²Category C, 800-2½; Category D, 800-2½.

BURLEY, ID

BURLEY MUNI **VOR-A**
VOR/DME-B

NA when local weather not received.

BURLINGTON/MOUNT VERNON, WA

SKAGIT RGNL **NDB Rwy 10¹**
RNAV (GPS) Rwy 10
RNAV (GPS) Rwy 28

NA when local weather not available.

¹Categories A,B, 1300-2; Categories C,D, 1300-3.

BURNS, OR

BURNS MUNI **VOR Rwy 30**
Categories A, B, 1400-2; Categories C,D, 1400-3.

BUTTE, MT

BERT MOONEY **ILS Y Rwy 15¹**
LOC/DME Rwy 15²
RNAV (GPS) Y Rwy 15³
RNAV (GPS) Z Rwy 15,1200-2
VOR or GPS-B,1400-3
VOR/DME or GPS-A,3000-3

¹Categories A, B, C, 1200-4.

²Categories A,B, 1300-2; Categories C,D, 1300-3.

³Categories A,B, 1500-2; Categories C,D, 1500-3.

CALDWELL, ID

CALDWELL
INDUSTRIAL **RNAV (GPS) Rwy 12**
RNAV (GPS) Rwy 30

NA when local weather not available.

CASPER, WY

CASPER/NATRONA
COUNTY INTL **ILS or LOC Rwy 3**
ILS, Categories A,B, 800-2; Category C 800-2½; Category D, 800-2½; Category E, 900-3.
LOC, Category C, 800-2½; Category D, 800-2½; Category E, 900-3.

NAME ALTERNATE MINIMUMS

CHEYENNE, WY

CHEYENNE RGNL/JERRY OLSON
FIELD **ILS or LOC Rwy 27¹**
NDB Rwy 27¹
RNAV (GPS) Rwy 9²
RNAV (GPS) Rwy 13²
RNAV (GPS) Rwy 31²

¹NA when control tower closed.

²NA when local weather not available.

CODY, WY

YELLOWSTONE
REGIONAL **RNAV (GPS) Rwy 22¹**
VOR or GPS-A²

¹Category C, 800-2½; Category D, 200-2½.

²Category D, 900-3.

COEUR D'ALENE, ID

COEUR D'ALENE-PAPPY
BOYINGTON FIELD **ILS or LOC/DME Rwy 5**
NDB Rwy 5
RNAV (GPS) Rwy 5
VOR Rwy 5
VOR/DME Rwy 1

NA when local weather not available.

CORVALLIS, OR

CORVALLIS MUNI **VOR-A**
Categories A,B,1200-2; Categories C,D, 1200-3.

DEER PARK, WA

DEER PARK **RNAV (GPS) Rwy 34**
NA when local weather not available.

DILLON, MT

DILLON **VOR or GPS-A,1500-3**
VOR/DME or GPS-B
NA when Dillon altimeter setting not available.

DOUGLAS, WY

CONVERSE COUNTY **VOR Rwy 29**
Categories A,B, 1100-2; Categories C,D, 1100-3. DME standard.

EASTSOUND, WA

ORCAS ISLAND **RNAV (GPS)-A**
Categories A, B, 1100-2.
NA when local weather not available.

ELLENSBURG, WA

BOWERS FIELD **RNAV (GPS) Rwy 25¹**
RNAV (GPS) Rwy 29
VOR-B²

NA when local weather not available.

¹Category D, 800-2½.

²Category A, 1500-2.

NAME ALTERNATE MINIMUMS

EPHRATA, WA

EPHRATA MUNI RNAV (GPS) Rwy 3¹
 RNAV (GPS) Rwy 21²
 VOR/DME Rwy 3¹
 VOR Rwy 21¹

NA when local weather not available.

¹Category D, 1300-3.

²Category C, 800-2¼; Category D, 1300-3.

EUGENE, OR

MAHLON-SWEET

FIELD ILS or LOC/DME Z Rwy 16R¹
 ILS or LOC Y Rwy 16R¹
 ILS or LOC/DME Rwy 16L¹²
 RNAV (GPS) Rwy 34R²
 VOR or GPS-A³

¹NA when control tower closed.

²NA when local weather not available.

³Categories A,B, 900-2; Category C, 900-2¼;
 Category D, 900-2¾.

EVANSTON, WY

EVANSTON-UINTA COUNTY

BURNS FIELD ILS or LOC/DME Rwy 23
 Categories C,D, 700-2.

EVERETT, WA

SNOHOMISH COUNTY(PAINE

FIELD) ILS or LOC/DME Rwy 16R
 NA when control tower closed.
 NA when local weather not available.

FORT BENTON, MT

FORT BENTON RNAV (GPS) Rwy 23
 NA when local weather not available.

GILLETTE, WY

GILLETTE-CAMPBELL

COUNTY ILS or LOC Rwy 34¹²
 RNAV (GPS) Rwy 16³
 RNAV (GPS) Rwy 34⁴
 VOR/DME Rwy 16⁵
 VOR/DME Rwy 34¹

¹Categories A,B, 900-2; Category C, 900-2¼;
 Category D, 1000-3.

²NA when control tower closed.

³Categories A,B,C, 800-2¼; Category D,
 1000-3.

⁴Categories A,B,C,D, 1200-4.

⁵Category C, 800-2¼; Category D, 1000-3.

GLASGOW, MT

WOKAL FIELD/

GLASGOW INTL VOR Rwy 12
 Categories A,B, 900-2; Categories C,D, 900-3.
 VOR/DME standard.

NAME ALTERNATE MINIMUMS

GLENDDIVE, MT

DAWSON

COMMUNITY NDB or GPS Rwy 12,900-2¾

GOODING, ID

GOODING MUNI RNAV (GPS) Rwy 7
 RNAV (GPS) Rwy 25

NA when local weather not available.

GRAY AAF (KGRF)

FORT LEWIS, WA NDB Rwy 15
 NDB Rwy 33
 ILS or LOC Rwy 15
 COPTER NDB Rwy 15

NA when control tower closed.

GREAT FALLS, MT

GREAT FALLS INTL NDB Rwy 34
 Category D, 800-2¼.

GREYBULL, WY

SOUTH BIG HORN COUNTY RNAV (GPS)-A
 RNAV (GPS) Rwy 33¹

NA when local weather not available.

¹Category D, 1200-3.

HAILEY, ID

FRIEDMAN

MEMORIAL RNAV (GPS) W Rwy 31
 Categories A,B, 1900-2; Category C, 1900-3.

HAVRE, MT

HAVRE CITY-COUNTY VOR Rwy 26
 Categories A, B, 900-2; Category C, 900-2¾;
 Category D, 900-3.

NAME ALTERNATE MINIMUMS

HELENA, MT

HELENA RGNL **ILS or LOC Y Rwy 27¹²**
ILS or LOC Z Rwy 27¹²
LOC/DME BC-C¹³
NDB-D¹⁴
RNAV (GPS) Y Rwy 9⁵
RNAV (GPS) Rwy 23⁶
RNAV (GPS) X Rwy 27⁵
RNAV (RNP) Z Rwy 9⁷
RNAV (RNP) Y Rwy 27⁷
RNAV (RNP) Z Rwy 27^{7,9}
VOR-A⁸
VOR/DME-B⁸

¹NA when control tower closed.

²Categories A, B, 1600-2; Categories C, D, E, 1600-3.

³Categories A, B, 1300-2; Categories C, D, 1300-3.

⁴Category A, 1200-2.

⁵Categories A, B, 1600-2; Categories C, D, 1600-3.

⁶Categories A, B, 900-2; Category C, 900-2½; Category D, 900-3.

⁷NA when local weather not available.

⁸Categories A, B, 2900-2; Categories C, D, 2900-3.

⁹1000-4.

HOQUIAM, WA

BOWERMAN **RNAV (GPS) Rwy 24¹**
VOR/DME Rwy 24²
VOR Rwy 6¹

¹Category D, 800-2¼.

²Categories A,B, 900-2; Category C, 900-2¾; Category D, 900-3.

IDAHO FALLS, ID

IDAHO FALLS RGNL **ILS or LOC Rwy 20¹**
LOC BC Rwy 2²
RNAV (GPS) Rwy 20³
VOR Rwy 20³

¹ILS, Category E, 700-2½. LOC, Category E, 800-2½.

²Category E, 800-2½.

³NA when local weather not available.

JACKSON, WY

JACKSON HOLE **RNAV (GPS) X Rwy 1¹**
RNAV (GPS) Y Rwy 19¹
RNAV (RNP) Y Rwy 1, 10681200-4
VOR/DME Rwy 1²
VOR/DME Rwy 19³

¹Categories A,B, 1200-2; Categories C,D, 1200-3.

²Categories A,B,1000-2; Categories C,D, 1000-3.

³Categories A,B,1400-2; Categories C,D, 1400-3.

NAME ALTERNATE MINIMUMS

JEROME, ID

JEROME COUNTY **RNAV (GPS) Rwy 9**
RNAV (GPS) Rwy 27¹
VOR/DME-A

NA when local weather not available.

¹Categories A, B, 1300-2; Categories C, D, 1300-3.

JOHN DAY, OR

GRANT COUNTY RGNL/
OGILVIE FIELD **RNAV (GPS) Y Rwy 9**
Category B, 900-2; Category C, 900-2½.

KALISPELL, MT

GLACIER PARK INTL **ILS or LOC Rwy 2¹**
RNAV (RNP) Y Rwy 2²
RNAV (RNP) Rwy 20, 800-2½²

¹Categories C, D, 700-2.

²NA when local weather not available.

KELSO, WA

SOUTHWEST
WASHINGTON RGNL **RNAV (GPS) Rwy 12**
Categories A, B, 900-2.

KLAMATH FALLS, OR

KLAMATH FALLS **ILS or LOC Rwy 32¹**
RNAV (GPS) Rwy 14²
VOR/DME or TACAN Rwy 14³
VOR/DME or TACAN Rwy 32⁴
VOR or GPS-B, 2100-3

¹Categories A,B, 900-2; Category C, 900-2¾; Category D, 1000-3. LOC, DME required.

²Categories A,B, 900-2; Category C, 900-2¾; Category D, 1000-3.

³Categories C,D, 1000-3; Category E, NA.

⁴Category B, 900-2; Categories C,D, 1000-3; Category E, 1500-3.

LAKEVIEW, OR

LAKE COUNTY **VOR/DME-A**
Categories A,B, 900-2; Category C, 900-2½; Category D, 900-2¾.

LEWISTON, ID

LEWISTON-NEZ PERCE
COUNTY **ILS Rwy 26¹²**
RNAV (GPS) Rwy 9³
RNAV (GPS) Rwy 12³
RNAV (GPS) Rwy 26³
VOR Rwy 8⁴
VOR Rwy 26³

¹ILS, Category D, 800-2¼.

²NA when control tower closed.

³Category D, 800-2¼.

⁴Categories A, B, 1100-2; Categories C, D, 1100-3.

NAME ALTERNATE MINIMUMS
LEWISTOWN, MT
 LEWISTOWN MUNI RNAV (GPS) Rwy 7
 VOR Rwy 7
 Category D, 800-2½.

LIVINGSTON, MT
 MISSION FIELD VOR/DME-B¹
 VOR-A²
 ¹Categories A, B, 900-2; Category C, 900-2½;
 Category D, 1000-3.
 ²Categories A, B, 2200-2; Categories C, D,
 2200-3.

MC CALL, ID
 MC CALL MUNI RNAV (GPS) Rwy 16¹
 RNAV (GPS) Y Rwy 34²
 RNAV (GPS) Z Rwy 34³⁴
 ¹Category C, 900-2½.
 ²Categories A, B, 1600-2; Categories C, D,
 1600-3.
 ³NA when local weather not available.
 ⁴Category C, 900-2½; Category D, 1000-3.

MC MINNVILLE, OR
 MC MINNVILLE MUNI ILS or LOC Rwy 22
 RNAV (GPS) Rwy 4
 RNAV (GPS) Rwy 22
 VOR/DME-B
 NA when local weather not available.
 Category D 800-2½.

MEDFORD, OR
 ROGUE VALLEY INTL-
 MEDFORD ILS or LOC/DME Rwy 14¹²
 LOC/DME BC-B²³
 RNAV (GPS)-D³
 RNAV (GPS) Rwy 14⁴
 VOR-A⁵
 VOR/DME-C³
 VOR/DME Rwy 14⁵
 ¹ILS, Categories A, B, C, 700-2; Category D,
 900-2½. LOC, Category D, 900-2½.
 ²NA when control tower closed.
 ³Categories A, B, 2300-2; Categories C, D,
 2300-3.
 ⁴Categories A, B, 1100-2; Categories C, D,
 1100-3.
 ⁵Categories A, B, 1400-2; Category C, D
 1400-3.

NAME ALTERNATE MINIMUMS
MISSOULA, MT
 MISSOULA INTL ILS Rwy 11¹
 RNAV (GPS) Y Rwy 11²³
 RNAV (RNP) Z Rwy 11²,800-2½
 VOR/DME or GPS-A,2000-3
 VOR/DME or GPS-B,2000-3
 ¹ILS, 1600-6. LOC,NA.
 ²NA when local weather not available.
 ³Categories A, B, 1900-2; Categories C, D,
 1900-3.

MOSES LAKE, WA
 GRANT COUNTY INTL ... ILS or LOC Rwy 32R¹
 NDB Rwy 32R²
 RNAV (GPS) Rwy 4¹
 RNAV (GPS) Rwy 14L¹
 RNAV (GPS) Rwy 22¹
 VOR Rwy 4²
 VOR -1 Rwy 14L²
 VOR -3 Rwy 14L²
 VOR Rwy 22²
 VOR Rwy 32R²
 ¹NA when local weather not available.
 ²NA when control tower closed.

NEWCASTLE, WY
 MONDELL FIELD VOR or GPS Rwy 31
 NA except for operators with approved weather
 reporting service.
 Categories A,B, 900-2;Categories C,D, 900-3.

NORTH BEND, OR
 SOUTHWEST OREGON
 RGNL ILS or LOC Rwy 4¹
 NDB or GPS Rwy 4²
 VOR or GPS-A³
 VOR/DME or GPS-B⁴
 VOR/DME Rwy 4⁴
 ¹ILS, Categories A,B, 800-2; Category C, 900-
 2½, Category D,1000-3. LOC, Category C,
 900-2½, Category D,1000-3.
 ²Category C, 900-2½;Category D, 1000-3.
 ³Categories A,B, 1100-2; Categories C,D,
 1100-3.
 ⁴Categories C,D, 1000-3.

OAK HARBOR, WA
 AJ EISENBERG RNAV (GPS) Rwy 7
 NA when local weather not available.

OLYMPIA, WA
 OLYMPIA RGNL ILS or LOC Rwy 17¹²³
 RNAV (GPS) Rwy 17²
 RNAV (GPS) Rwy 35²
 VOR-A²⁴
 VOR/DME Rwy 35²⁵
 ¹ILS, Categories C, D, 700-2.
 ²NA when local weather not available.

NAME ALTERNATE MINIMUMS

REDMOND, OR

ROBERTS FIELD **ILS or LOC Rwy 22¹**
VOR/DME Rwy 22²

¹ILS, LOC, Category D, 800-2½; Category E, 800-2½.

²Category A, B, 1000-2; Category C, 1000-2¾; Category D, E, 1000-3.

RENTON, WA

RENTON MUNI **NDB Rwy 16¹**
RNAV (GPS) Y Rwy 16²
RNAV (GPS) Z Rwy 16³

NA when local weather not available.

¹Categories A, B, 1000-2; Categories C, D, 1000-3.

²Categories A, B, 900-2; Category C, 900-2¾; Category D, 900-3.

³Categories A, B, 900-2.

REXBURG, ID

REXBURG-MADISON
COUNTY **RNAV (GPS) Rwy 35**
NA when local weather not available.
Category D, 800-2½.

RICHLAND, WA

RICHLAND **NDB Rwy 19¹**
RNAV (GPS) Rwy 19¹
RNAV (GPS) Rwy 26¹
VOR/DME-A²
VOR Rwy 26¹

¹Category D, 800-2½.

²Categories A, B, 900-2; Category C, 900-2¾; Category D, 900-3.

RIVERTON, WY

RIVERTON RGNL **ILS or LOC Rwy 28**
RNAV (GPS) Rwy 10
RNAV (GPS) Rwy 28
VOR Rwy 10
VOR Rwy 28

NA when local weather not available.

ROCK SPRINGS, WY

ROCK SPRINGS-SWEETWATER
COUNTY **VOR-B**
Category D, 800-2½.

ROSEBURG, OR

ROSEBURG RGNL **RNAV (GPS)-B**
NA when local weather not available.
Categories A, B, 1200-2; Category C, 1200-3;
Category D, 1400-3.

NAME ALTERNATE MINIMUMS

SALEM, OR

MCNARY FIELD **ILS or LOC Rwy 31¹²**
LOC/DME Rwy 31³
RNAV (GPS) Rwy 31¹³

¹NA when local weather not available.

²ILS, Categories A, B, 800-2; Category C, 800-2½; Category D, 800-2½. LOC, Category C, 800-2½; Category D, 800-2½.

³Category D, 800-2½.

SCAPPOOSE, OR

SCAPPOOSE INDUSTRIAL
AIRPARK **VOR/DME or GPS-A**
Category B, 900-2; Category C, 1000-2¾;
Category D 1300-3.

SEATTLE, WA

BOEING FIELD-KING COUNTY
INTL **ILS Rwy 13R¹**
ILS Rwy 31L²
LOC/DME Rwy 13R³
RNAV (GPS) Y Rwy 13R⁴
RNAV (RNP) Z Rwy 13R⁵

¹ILS, Category A, 800-2; Category B, 900-2; Category C, 900-2½; Category D, 1000-3.

²Category A, 800-2; Category B, 900-2; Category C, 900-2½; Category D, 1000-3.

³Category B, 900-2; Category C, 900-2½; Category D, 1000-3.

⁴Category B, 900-2; Category C, 900-2¾; Category D, 1000-3.

⁵Categories A, B, C, D, 800-2½.

SHERIDAN, WY

SHERIDAN
COUNTY **ILS or LOC/DME Rwy 32**
RNAV (GPS) Rwy 14
RNAV (GPS) Rwy 32
VOR Rwy 14

NA when local weather not received.
Category D, 800-2½.

SIDNEY, MT

SIDNEY-RICHLAND MUNI **NDB Rwy 1¹**
NDB Rwy 19²

¹Category D, 800-2½.

²Categories C, D, 800-2½.

ALTERNATE MINS

NAME ALTERNATE MINIMUMS

SPOKANE, WA

FELTS FIELD ILS/DME Rwy 21R¹
RNAV (GPS)-A²
RNAV (GPS) Rwy 3L²
VOR Rwy 3L^{3,4}

- ¹Categories A,B, 1000-2; Category C, 1000-2½.
²Categories A,B, 1000-2; Category C, 1000-2½; Category D, 1000-3.
³Categories A, B, 1000-2; Categories C, D, 1000-3.
⁴NA when local weather not available.

SPOKANE INTL ILS or LOC Rwy 3¹
ILS or LOC/DME Rwy 21¹
VOR Rwy 3²

- ¹ILS, Category D, 700-2.
²Category E, 800-2½.

TACOMA, WA

TACOMA NARROWS ILS Rwy 17¹
NDB Rwy 35¹
RNAV (GPS) Rwy 17^{1,2}
RNAV (GPS) Rwy 35^{2,3}

- ¹NA when control tower closed.
²Category D, 800-2½.
³NA when local weather not available.

THE DALLES, OR

COLUMBIA GEORGE RGNL/
THE DALLES MUNI RNAV (GPS)-A
Categories A,B, 1100-2; Category C, 1100-3;
Category D, 1200-3.

TWIN FALLS, ID

JOSLIN FIELD-MAGIC VALLEY
RGNL ILS or LOC Rwy 25¹
NDB Rwy 25
RNAV (GPS) Rwy 7
RNAV (GPS) Rwy 25
VOR Rwy 7²

- NA when local weather not available.
¹ILS, Category D, 700-2; Category E, 900-3.
LOC, Category E, 900-3.
²Category C, 800-2½; Category D, 800-2½.

WALLA WALLA, WA

WALLA WALLA RGNL ILS or LOC Rwy 20¹
NDB Rwy 20, 1000-3
RNAV (GPS) Rwy 2^{2,3}
RNAV (GPS) Rwy 16²
RNAV (GPS) Rwy 20²
VOR/DME Rwy 2²

- ¹ILS, LOC, Categories A,B, 1100-2; Categories C, D, 1100-3.
²Category D, 800-2½.
³NA when local weather not available.

NAME ALTERNATE MINIMUMS

WENATCHEE, WA

PANGBORN
MEMORIAL ILS Y Rwy 12, 1300-4
VOR/DME-C^{1,2}
VOR/DME-A³

- ¹NA when local weather not available.
²Categories A, B, 1500-2; Categories C, D, 1500-3.
³Categories A, B, 2000-2; Categories C, D, 2000-3.

WOLF POINT, MT

L.M. CLAYTON RNAV (GPS) Rwy 11
RNAV (GPS) Rwy 29

NA when local weather not available.

WORLAND, WY

WORLAND MUNI VOR or GPS Rwy 16
Categories C,D, 800-2½.

YAKIMA, WA

YAKIMA AIR TERMINAL/
MCALLISTER FIELD ILS Y Rwy 27^{1,2}
ILS Z Rwy 27^{1,3}
LOC/DME BC-B^{1,4}
RNAV (GPS) Y Rwy 27⁵
RNAV (GPS) Z Rwy 27⁴
VOR/DME or TACAN Rwy 27⁶
VOR-A⁷

- ¹NA when control tower closed.
²ILS, Categories A, B, 600-2½; Category C, 700-2½; Category D, 800-2½.
³Category C, 700-2; Category D, 800-2½
⁴Category D, 800-2½.
⁵Category C, 800-2½; Category D, 800-2½.
⁶Categories A, B, 1100-2; Categories C, D, 1100-3.
⁷Category C, 800-2½; Category D, 800-2½.

INSTRUMENT APPROACH PROCEDURE CHARTS

IFR TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

Civil Airports and Selected Military Airports

ALL USERS: Airports that have Departure Procedures (DPs) designed specifically to assist pilots in avoiding obstacles during the climb to the minimum enroute altitude, and/or airports that have civil IFR take-off minimums other than standard, are listed below. Take-off Minimums and Departure Procedures apply to all runways unless otherwise specified. Altitudes, unless otherwise indicated, are minimum altitudes in MSL.

DPs specifically designed for obstacle avoidance are referred to as Obstacle Departure Procedures (ODPs) and are described below in text, or published separately as a graphic procedure. If the (Obstacle) DP is published as a graphic procedure, its name will be listed below, and it can be found in either this volume (civil), or a separate Departure Procedure volume (military), as appropriate. Users will recognize graphic obstacle DPs by the term "(OBSTACLE)" included in the procedure title; e.g., TETON TWO (OBSTACLE). If not assigned a SID or radar vector by ATC, an ODP may be flown without ATC clearance to ensure obstacle clearance.

Graphic DPs designed by ATC to standardize traffic flows, ensure aircraft separation and enhance capacity are referred to as "Standard Instrument Departures (SIDs)". SIDs also provide obstacle clearance and are published under the appropriate airport section. ATC clearance must be received prior to flying a SID.

CIVIL USERS NOTE: Title 14 Code of Federal Regulations Part 91 prescribes standard take-off rules and establishes take-off minimums for certain operators as follows: (1) Aircraft having two engines or less - one statute mile. (2) Aircraft having more than two engines - one-half statute mile. These standard minima apply in the absence of any different minima listed below.

MILITARY USERS NOTE: Civil (nonstandard) take-off minima are published below. For military take-off minima, refer to appropriate service directives.

NAME TAKE-OFF MINIMUMS

AFTON, WY

AFTON MUNI

DEPARTURE PROCEDURE: **Rwy 16**, Use LUNDI
DEPARTURE. **Rwy 34**, use AFTON DEPARTURE.

ALBANY, OR

ALBANY MUNI

DEPARTURE PROCEDURE: **Rwy 16**, turn right.
Rwy 34, turn left. All aircraft climb direct CVO VOR/
DME and continue climb in CVO VOR/DME holding
pattern, (E, right turns, 261° inbound) to cross CVO
VOR/DME at or above 3000.

ANACONDA, MT

BOWMAN FIELD

TAKE-OFF MINIMUMS: **Rwy 4**, std. w/min. climb of 417'
per NM to 9000, or 2800-3 for climb in visual conditions.
Rwy 17, std. w/min. climb of 321' per NM to 10200, or
2800-3 for climb in visual conditions. **Rwy 22**, NA-
obstacles. **Rwy 35**, std. w/min. climb of 369' per NM to
9100, or 2800-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 4, 35**, climbing right
turn to 10200 via heading 130° and CPN VOR/DME R-
340 to CPN VOR/DME, continue climb-in-hold to 10200
(north, left turn, 166° inbound), or for climb in visual
conditions, cross Bowman Field Airport at or above 7700
then proceed via CPN R-309 to CPN VOR/DME,
continue climb-in-hold to 10200 (north, left turn, 166°
inbound).

NAME TAKE-OFF MINIMUMS

BOWMAN FIELD(CON'T)

Rwy 17, climbing left turn to 10200 via heading 100° and
CPN VOR/DME R-335 to CPN VOR/DME, continue
climb-in-hold to 10200 (north, left turn, 166° inbound), or
for climb in visual conditions, cross Bowman Field
Airport at or above 7700 then proceed via CPN R-309 to
CPN VOR/DME, continue climb-in-hold to 10200 (north,
left turn, 166° inbound).

NOTE: **Rwy 17**, multiple trees beginning 865' from
departure end of runway, 243' left of centerline, up to 70'
AGL/5097' MSL. Rod on hangar 570' from departure
end of runway, 278' left of centerline, 54' AGL/5054'
MSL. Multiple trees beginning 787' from departure end
of runway, 165' right of centerline, up to 70' AGL/5098'
MSL. Multiple transmission lines beginning 4602' from
departure end of runway, 1664' right of centerline, 80'
AGL/5159' MSL. **Rwy 35**, multiple transmission lines
beginning 2242' from departure end of runway, 964' left
of centerline, up to 80' AGL/5159' MSL.

ARCO, ID

ARCO-BUTTE COUNTY (AOC)

AMDT 1 08157 (FAA)

TAKE-OFF MINIMUMS: **Rwy 6**, NA - Obstacles.
DEPARTURE PROCEDURE: Use JATTS
DEPARTURE.

ARLINGTON, WA**ARLINGTON MUNI**

TAKE-OFF MINIMUMS: **Rwy 11**, 600-2 or std. with a min. climb of 350' per NM to 700. **Rwy 34**, 500-2 or std. with a min. climb of 260' per NM to 700.

DEPARTURE PROCEDURE: **Rwy 11**, turn right.

Rwy 16, climb direct to WATON LOM. **Rwys 29, 34**, turn left. **All aircraft** climb direct to WATON LOM. Aircraft departing WATON LOM on bearings 150° CW 200° and bearings 260° CW 340° from WATON LOM continue climb on course. Aircraft departing WATON LOM on bearings 340° CW 150° from WATON LOM climb in holding pattern (S, left turns, 339° inbound) to 4500 then continue climb on course. Aircraft departing WATON LOM on bearings 200° CW 260° from WATON LOM climb in holding pattern (S, left turns, 339° inbound) to 1500 then continue climb on course.

ASTORIA, OR**ASTORIA RGNL**

TAKE-OFF MINIMUMS: **Rwy 8**, 800-3 or std. with a min. climb of 320' per NM to 900. **Rwy 13**, 700-2 or std. with a min. climb of 350' per NM to 800.

DEPARTURE PROCEDURE: **Rwys 8, 31**, turn left.

Rwy 13, climb runway heading to 800 then climbing right turn. **Rwy 26**, turn right. Aircraft departing northwestbound climb via AST R-290 on course.

All other aircraft climb to 1500 or above via AST R-290 then left turn to AST VOR/DME and continue climbing on course.

AUBURN, WA**AUBURN MUNI**

DEPARTURE PROCEDURE: Use AUBURN DEPARTURE.

AURORA, OR**AURORA STATE**

DEPARTURE PROCEDURE: **Rwy 17**, turn right,

thence... **Rwy 35**, turn left, thence...

...Aircraft proceeding via V23 climb on course; All others climb in UBG VOR/DME holding pattern (hold south, left turn, 003° inbound) to cross UBG VOR/DME at or above MEA/MCA for direction of flight.

NOTE: **Rwy 17**, multiple trees 31' from departure end of runway, 273' right of centerline, up to 90' AGL/270' MSL.

Multiple trees beginning 979' from departure end of runway, 247' right of centerline up to 113' AGL/316' MSL. Road 254' from departure end of runway, 350' left of centerline, 16' AGL/209' MSL. **Rwy 35**, multiple trees and road beginning 31' from departure end of runway,

163' left of centerline, up to 138' AGL/329' MSL. Multiple trees beginning 973' from departure end of runway, 281' right of centerline, up to 58' AGL/253' MSL.

BAKER, MT**BAKER MUNI**

NOTE: **Rwy 13**, 51' derrick 2200' from departure end of runway on centerline. 100' trees south of airport, near runway, various locations. **Rwy 31**, 146' antenna on tower 4000' from departure end of runway, 1800' left of centerline. 114' rod on OL antenna 3800' from departure end of runway on centerline.

BAKER CITY, OR**BAKER CITY MUNI**

TAKE-OFF MINIMUMS: **Rwy 8**, 900-2 or std. with a min. climb of 315' per NM to 6000, (788' per min. at 150K, 1050' per min. at 200K, 1313' per min. at 250K).

Rwy 13, 1400-2 or std. with a min. climb of 310' per NM to 6000 (775' per min. at 150K, 1033' per min. at 200K, 1292' per min. at 250K). **Rwy 17, NA. Rwy 31**, 1300-2 or std. with a min. climb of 240' per NM to 6000 (600' per min. at 150K, 800' per min. at 200K, 1000' per min. at 250K). **Rwy 35**, CAT C, D 1000-2; or std. with a min. climb of 240' per NM to 6000 (600' per min. at 150K, 800' per min. at 200K, 1000' per min. at 250K).

DEPARTURE PROCEDURE: **Rwys 8, 13**, turn left.

Rwys 26, 31, 35, turn right. **All aircraft** climb direct BKE VOR/DME. Continue climb in BKE holding pattern (SE, right turns, 298° inbound) to cross BKE VOR/DME at or above MCA or MEA for route of flight.

BELLINGHAM, WA**BELLINGHAM INTL**

DEPARTURE PROCEDURE: **Rwy 16**, climb heading 160° to 600, then climbing right turn direct HUH VORTAC. Do not exceed 210 KIAS until established northbound. **Rwy 34**, climb heading 340° to 600, then climbing left turn to intercept HUH R-145 to HUH VORTAC, continue climb in holding pattern (northwest, right turn, 149° inbound) to MEA as appropriate for direction of flight.

NOTE: **Rwy 16**, lighted windsock 9' from departure end of runway, 259' right of centerline, 16' AGL/181' MSL.

Multiple trees beginning 747' from departure end of runway, 405' right of centerline, up to 68' AGL/213' MSL.

Multiple trees beginning 1128' from departure end of runway, 57' left of centerline, up to 104' AGL/249' MSL.

Rwy 34, lighted windsock 93' from departure end of runway, 516' right of centerline, 27' AGL/169' MSL. Multiple trees beginning 1372' from departure end of runway, 619' right of centerline, up to 134' AGL/246' MSL.

BEND, OR**BEND MUNI (BDN)****AMDT 4 09183 (FAA)**

DEPARTURE PROCEDURE: Use BEND DEPARTURE.

BIG PINEY, WY**MILEY MEMORIAL FIELD**

TAKE-OFF MINIMUMS: **Rwys 8, 26**, NA.

DEPARTURE PROCEDURE: **Rwy 13**, climb to 8400 via BPI R-124. **Rwy 31**, climb to 10800 via BPI R-320 thence all aircraft climb on course.

BILLINGS, MT

BILLINGS LOGAN INTL (BIL)

AMDT 5 08101 (FAA)

TAKE-OFF MINIMUMS: **Rwy 10R**, NA- Obstacles.DEPARTURE PROCEDURE: **Rwy 10L**, Climb heading 098° to 4600 before turning right.

NOTE: **Rwy 10L**, fence 466' from departure end of runway, 535' right of centerline, 11' AGL/3511' MSL, cars on road, beginning from 624' from departure end of runway, 427' right of centerline, 15' AGL/3523' MSL, ground beginning 21' from departure end of runway, 499' right of centerline, 0' AGL/3505' MSL. **Rwy 25**, airport security fence, abeam departure end of runway, 500' left of centerline, 11' AGL/3672' MSL to 1200' from departure end of runway, abeam rwy centerline, 11' AGL/3672' MSL.

BLACKFOOT, ID

MCCARLEY FIELD

DEPARTURE PROCEDURE: **Rwy 1**, climb to 7000 (or higher assigned altitude) direct IDA VOR/DME, before proceeding on course. **Rwy 19**, climb to 7000 (or higher assigned altitude) direct PIH VORTAC, before proceeding on course.

BOISE, ID

BOISE AIR TERMINAL / GOWEN FIELD (BOI)

AMDT 6 10042 (FAA)

DEPARTURE PROCEDURE: Use GOWEN DEPARTURE.

BOZEMAN, MT

GALLATIN FIELD (BZN)

AMDT 3 08213 (FAA)

TAKE-OFF MINIMUMS: **Rwys 3, 21**, NA-ATC.

DEPARTURE PROCEDURE: **Rwys 12, 30**, use BOZEMAN DEPARTURE.

BREMERTON, WA

BREMERTON NATIONAL (PWT)

AMDT 3 08045 (FAA)

TAKE-OFF MINIMUMS: **Rwy 1**, 300-1 or std. w/min. climb of 410' per NM to 700.

DEPARTURE PROCEDURE: **Rwy 1**, Climbing right turn to 6000 direct CAN NDB, Thence... **Rwy 19**, Climb to 6000 direct CAN NDB, thence...

...Continue climb-in-hold (S, LT, 013° inbound) to 6000 before proceeding on course.

NOTES: **Rwy 1**, Multiple bushes 380' from departure end of runway, 522' left of centerline, up to 17' AGL/456' MSL, multiple trees and poles beginning 1210' from departure end of runway, 622' left of centerline, up to 100' AGL/561' MSL, multiple trees and bushes 1012' from departure end of runway, 708' right of centerline, up to 100' AGL/495' MSL. **Rwy 19**, Multiple trees beginning 176' from departure end of runway, 337' left of centerline, up to 100' AGL/514' MSL, multiple trees beginning 371' from departure end of runway, 277' right of centerline, up to 100' AGL/548' MSL.

BUFFALO, WY

JOHNSON COUNTY

TAKE-OFF MINIMUMS: Northbound aircraft:

Rwys 13, 31, 2400-2 or std. with a min. climb of 300' per NM to 7500. Southbound aircraft: **Rwy 31**, 400-2 or std. with a min climb of 300' per NM to 6000.

DEPARTURE PROCEDURE: Northbound aircraft:

Rwy 13, turn left. **Rwy 31**, climb straight ahead.**All aircraft** proceed via SHR R-139 to SHR VORTAC.Southbound aircraft: **Rwy 13**, climb straight ahead.**Rwy 31**, turn right. **All aircraft** proceed via CZI R-319 to CZI VOR/DME.**BURLEY, ID**

BURLEY MUNI (BYI)

AMDT 5 10042 (FAA)

TAKE-OFF MINIMUMS: **Rwy 24**, 300-1½ or std. w/min. climb of 428' per NM to 4500.

DEPARTURE PROCEDURE: **Rwy 2**, climbing left turn direct BYI VOR/DME, continue climb in BYI VOR/DME holding pattern (hold Northwest right turns, 125° inbound) to cross BYI VOR/DME at or above MEA for route of flight. **Rwy 6**, climbing left turn direct BYI VOR/DME, continue climb in BYI VOR/DME holding pattern (hold Northwest right turns, 125° inbound) to cross BYI VOR/DME at or above MEA for route of flight. **Rwy 20**, climbing right turn direct BYI VOR/DME, continue climb in BYI VOR/DME holding pattern (hold Northwest right turns, 125° inbound) to cross BYI VOR/DME at or above MEA for route of flight. **Rwy 24**, climbing right turn direct BYI VOR/DME, continue climb in BYI VOR/DME holding pattern (hold Northwest right turns, 125° inbound) to cross BYI VOR/DME at or above MEA for route of flight.

NOTE: **Rwy 2**, obstruction light on bridge 252' from DER, 513' left of centerline, 57' AGL/4195' MSL. Trees beginning 686' from DER, 201' right of centerline, up to 35' AGL/4184' MSL. Tree 694' from DER, 375' left of centerline, 29' AGL/4178' MSL. Obstruction light on building 736' from DER, 188' left of centerline, 11' AGL/4161' MSL. Tower 803' from DER, 590' left of centerline, 55' AGL/4204' MSL. Vehicles on road beginning 857' from DER, 1' right of centerline, up to 17' AGL/4168' MSL. Poles beginning 1226' from DER, 549' left of centerline, up to 72' AGL/4222' MSL. Building vent 1240' from DER, 164' left of centerline, 27' AGL/4177' MSL. Stack 2206' from DER, 856' right of centerline, 86' AGL/4236' MSL. Stack 2573' from DER, 614' left of centerline, 86' AGL/4236' MSL. Elevators beginning 3980' from DER, 131' right of centerline, up to 133' AGL/4283' MSL. **Rwy 6**, trees beginning 46' from DER, 172' right of centerline, up to 14' AGL/4163' MSL. Rising terrain beginning 49' from DER, 326' right of centerline, up to 4149' MSL. Bush 150' from DER, 103' right of centerline, 5' AGL/4147' MSL. Antenna 586' from DER, 398' left of centerline, 15' AGL/4165' MSL. Obstruction light on bridge 1061' from DER, 80' right of centerline, 39' AGL/4179' MSL.

BURLEY MUNI (BYI) (CON'T)

Rwy 20, obstruction light pole 42' from DER, 124' left of centerline, 16' AGL/4170' MSL. Railroad beginning 65' from DER, 4' left of centerline, up to 23' AGL/4177' MSL. Sign 181' from DER, 121' right of centerline, 18' AGL/4172' MSL. Vehicles on road 162' from DER, 2' left of centerline, 17' AGL/4169' MSL. Vehicles on road beginning 335' from DER 348' right of centerline up to 17' AGL/4171' MSL. Pole 446' from DER, 210' right of centerline, 26' AGL/4180' MSL. Antenna 523' from DER, 337' right of centerline, 63' AGL/4217' MSL. Tree 586' from DER, 213' right of centerline, 28' AGL/4182' MSL. Trees beginning 2014' from DER, 339' left of centerline, up to 96' AGL/4251' MSL.

Rwy 24, vehicles on road beginning 25' from DER, 9' left of centerline, up to 15' AGL/4169' MSL. Fence 58' from DER, 8' left of centerline, 4' AGL/4154' MSL. Rising terrain beginning 69' from DER, 201' right of centerline, up to 4154' MSL. Railroad 152' from DER, 6' left of centerline, 23' AGL/4176' MSL. Trees beginning 427' from DER, 101' right of centerline, up to 69' AGL/4223' MSL. Vehicles on road beginning 509' from DER, 586' right of centerline, up to 15' AGL/4169' MSL. Railroad beginning 568' from DER, 288' right of centerline, up to 23' AGL/4177' MSL. Pole 735' from DER, 185' left of centerline, 18' AGL/4172' MSL. Light standard 824' from DER, 58' right of centerline, 23' AGL/4177' MSL. Antenna 1630' from DER, 112' left of centerline, 58' AGL/4212' MSL. Tower 2766' from DER, 175' left of centerline, 123' AGL/4282' MSL. Tower 3570' from DER, 158' right of centerline, 157' AGL/4312' MSL. Obstruction light on elevators beginning 3115' from DER, 164' left of centerline, up to 184' AGL/4344' MSL.

BURLINGTON/MOUNT VERNON, WA

SKAGIT RGNL (BVS)

ORIG-A 08297 (FAA)

TAKE-OFF MINIMUMS: **Rwy 4**, 3000-2 or std. with a min. climb of 340' per NM to 3600. **Rwy 10**, 1700-2 or std. with a min. climb of 245' per NM to 2300. **Rwy 22**, 1300-2 or std. with a min. climb of 210' per NM to 1800.

DEPARTURE PROCEDURE: **Rwys 4, 10, 22**, turn right heading 280°. **Rwy 28**, climb runway heading.

All aircraft climb to 2500 then turn right direct BVS NDB to cross BVS at or above 4500. Aircraft departing on BVS R-145 CWR-330 climb on course. All others continue climbing in BVS holding pattern (NW, right turns 113° inbound) to cross BVS at or above 6800 before proceeding on course.

NOTE: **Rwy 4**, tree 2581' from departure end of runway, 426' left of centerline, 100' AGL/212' MSL. Light pole 1489' from departure end of runway, 136' left of centerline 35' AGL/137' MSL. Bush 126' from departure end of runway, 430' right of centerline, 20' AGL/101' MSL. Building 2925' from departure end of runway, 130' left of centerline, 60' AGL/180' MSL.

BURNS, OR

BURNS MUNI

DEPARTURE PROCEDURE: **Rwy 3**, climbing right turn, thence... **Rwy 12**, climb to 4600 via heading 117°, thence... **Rwys 21, 30**, climbing left turn, thence...
...All aircraft departing on ILR R-072 CWR R-209, climb on course. All others climb on ILR R-123 within 10 NM to cross ILR VOR/DME at or above 5000.

NOTE: **Rwy 21**, pole 820' from departure end of runway, 357' left of centerline, 20' AGL/4169' MSL.

BUTTE, MT

BERT MOONEY

TAKE-OFF MINIMUMS: **Rwy 11**, NA-obstacles. **Rwy 15**, std. w/ min. climb of 601' per NM to 7300, or 3300-3 for climb in visual conditions. **Rwy 29**, std. w/ min. climb of 832' per NM to 6700, or 3300-3 for climb in visual conditions. **Rwy 33**, std. w/ min. climb of 355' per NM to 6800, or 3300-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 15**, climbing right turn direct CPN VOR/DME, or for climb in visual conditions: Cross Bert Mooney Airport westbound at or above 8800 then proceed direct CPN VOR/DME, thence... **Rwy 29**, climb heading 293° to intercept CPN VOR/DME R-082 to CPN VOR/DME, or for climb in visual conditions: Cross Bert Mooney Airport westbound at or above 8800 then proceed direct CPN VOR/DME, thence... **Rwy 33**, climb direct CPN VOR/DME, or for climb in visual conditions: Cross Bert Mooney Airport westbound at or above 8800 then proceed direct CPN VOR/DME, thence...

...climb in CPN VOR/DME holding pattern (hold north, left turn, 166° inbound) to cross CPN VOR/DME at or above MEA before proceeding enroute.

NOTE: **Rwy 15**, multiple trees beginning 2 NM from departure end of runway, 1779' right of centerline, up to 100' AGL/6659' MSL. Tree 2.1 NM from departure end of runway, 66' left of centerline, 100' AGL/5934' MSL.

Rwy 29, multiple trees and poles beginning 364' from departure end of runway, 7' right of centerline, up to 100' AGL/5621' MSL. Multiple trees and lights beginning 322' left of centerline, up to 100' AGL/5582' MSL. Terrain and numerous trees beginning 1.2 NM from departure end of runway, 1022' left of centerline, up to 100' AGL/6379' MSL. **Rwy 33**, flag pole 1095' from departure end of runway, 730' left of centerline, 64' AGL/5583' MSL.

CALDWELL, ID

CALDWELL INDUSTRIAL

TAKE-OFF MINIMUMS: **Rwy 12**, std. with a min. climb of 300' per NM to 5600, or 2400-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 12**, climb via heading 119° to 5600 before proceeding on course. For climb in visual conditions: Cross Caldwell Industrial Airport at or above 4800 before proceeding on course. **Rwy 30**, climb via heading 299° to 4400 before proceeding on course.

NOTE: **Rwy 12**, levee 198' from departure end of runway, 281' left of centerline, 0' AGL/2451' MSL. Multiple trees 1462' from departure end of runway, 877' right of centerline, up to 100' AGL/2505' MSL. **Rwy 30**, multiple poles 206' from departure end of runway, 389' right of centerline, up to 39' AGL/2457' MSL. Rod 353' from departure end of runway, 246' right of centerline, 21' AGL/2439' MSL.

CASPER, WY

CASPER/NATRONA COUNTY INTL (CPR)
AMDT 3A 09155 (FAA)

DEPARTURE PROCEDURE: **Rwys 3,8,12**, turn left.

All other runways, turn right. **All aircraft** climb direct DDY VORTAC before proceeding on course, or comply with published Casper SIDs.

CHEHALIS, WA

CHEHALIS-CENTRALIA

DEPARTURE PROCEDURE: **Rwy 16**, climb to 1000 via heading 160° then climbing left turn to 4000 via heading 001° and OLM R-151 to OLM VORTAC before proceeding on course. **Rwy 34**, climb to 4000 via heading 340° and OLM R-176 to OLM VORTAC before proceeding on course.

CHEYENNE, WY

CHEYENNE RGNL/JERRY OLSON FIELD

NOTE: **Rwy 13**, multiple trees beginning 74' from departure end of runway, 115' left of centerline, up to 40' AGL/6166' MSL. Multiple trees, pole, and fence beginning 34' from departure end of runway, 167' right of centerline, up to 40' AGL/6154' MSL. **Rwy 27**, multiple trees and poles beginning 525' from departure end of runway, 271' left of centerline, up to 40' AGL/6216' MSL. Multiple trees and poles beginning 1222' from departure end of runway, 275' right of centerline, up to 40' AGL/6211' MSL. **Rwy 31**, multiple trees, road, fence and sign beginning 196' from departure end of runway, 76' left of centerline, up to 40' AGL/6238' MSL. Multiple poles and sign beginning 407' from departure end of runway, 8' left of centerline, up to 69' AGL/6229' MSL.

CODY, WY

YELLOWSTONE RGNL (COD)

AMDT 4 10042 (FAA)

TAKE-OFF MINIMUMS: **Rwy 4**, std. with a min. climb of 400' per NM to 8000' or 4200-3 for climb in visual conditions. **Rwy 22**, std. with a min. climb of 385' per NM to 7400' or 4200-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 4**, climb heading 038° to 5900, then climbing left turn via COD R-171 to COD VOR/DME or for climb in visual conditions to cross Yellowstone Rgnl at or above 9400, then via COD R-189 to COD VOR/DME to cross COD VOR/DME at or above MEA for route of flight. **Rwy 22**, climb heading 218° to 6600, then climbing left turn via COD R-180 to COD VOR/DME or for climb in visual conditions to cross Yellowstone Rgnl at or above 9400, then via COD R-189 to COD VOR/DME to cross COD VOR/DME at or above MEA for route of flight.

NOTE: **Rwy 4**, trees beginning 100' from DER, 262' right of centerline, up to 79' AGL/5199' MSL. Rising terrain beginning 1723' from DER, 304' right of centerline, up to 5146' MSL. **Rwy 22**, poles beginning 1 NM from DER, 406' right of centerline, up to 60' AGL/5332' MSL. Rising terrain beginning 1 NM from DER, 109' right of centerline, up to 6235' MSL. Rising terrain beginning 5074' from DER, 131' left of centerline, up to 5428' MSL.

COEUR D'ALENE, ID

COEUR D'ALENE-PAPPY BOYINGTON FIELD
(COE)

AMDT 9 10042 (FAA)

DEPARTURE PROCEDURE: use COEUR D'ALENE DEPARTURE.

COLSTRIP, MT

COLSTRIP (M46)

AMDT 2 08157 (FAA)

TAKE-OFF MINIMUMS: **Rwy 6** use CISPU (RNAV)

DEPARTURE: **Rwy 24**, use CONUK (RNAV)
DEPARTURE.

CONRAD, MT

CONRAD

DEPARTURE PROCEDURE: **Rwy 24**, climb runway heading to 4300, then continue climb on course.

CORVALLIS, OR

CORVALLIS MUNI

TAKE-OFF MINIMUMS: **Rwys 9, 17, 35**, std. with a min. climb of 290' per NM to 3100 or 1700-3 for climb in visual conditions.

Rwy 27, std. with a min. climb of 310' per NM to 3100 or 1700-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 9, 17**, climbing left turn direct CVO VOR/DME, thence...or, climb in visual conditions to cross CVO VOR/DME at or above 3400.

Rwys 27, 35, climbing right turn direct CVO VOR/DME, thence...or, climb in visual conditions to cross CVO VOR/DME at or above 3400.

...climb in CVO VOR/DME holding pattern (E, RT, 261° inbound) to depart at or above 3400.

NOTE: **Rwy 9**, multiple trees and railroad beginning 549' from departure end of runway, 254' left of centerline, up to 153' AGL/383' MSL. Multiple trees and railroad beginning 670' from departure end of runway, 5' right of centerline, up to 135' AGL/380' MSL. **Rwy 27**, obstruction light on glideslope 409' from departure end of runway, 325' left of centerline, 28' AGL/273' MSL.

Rwy 35, multiple trees beginning 470' from departure end of runway, 544' left of centerline up to 36' AGL/276' MSL.

COWLEY/LOVELL/BYRON, WY

NORTH BIG HORN COUNTY

DEPARTURE PROCEDURE: **Rwys 9, 27**, aircraft departing via HCY NDB bearings 130° CW 225° climb on course, all others climb in HCY NDB holding pattern (W, right turns, 078° inbound) to cross HCY NDB at or above 9000.

DEER PARK, WA

DEER PARK (DEW)

AMDT 1 10098 (FAA)

TAKE-OFF MINIMUMS: **Rwy 34**, 300-1½ or std. with a min. climb of 455' per NM to 2500.

DEPARTURE PROCEDURE: **Rwy 4**, climbing right turn heading 165° and GEG VORTAC R-006 to GEG VORTAC. **Rwy 16**, climb heading 164° and GEG VORTAC R-006 to GEG VORTAC. **Rwy 22**, climbing left turn heading 155° and GEG VORTAC R-006 to GEG VORTAC. **Rwy 34**, climbing right turn heading 165° and GEG VORTAC R-006 to GEG VORTAC.

NOTE: **Rwy 4**, aircraft 261' from DER, 511' left of centerline, up to 21' AGL/2210' MSL. Trees beginning 1809' from DER, 413' left of centerline, up to 109' AGL/2299' MSL. Aircraft 104' from DER, 186' right of centerline, up to 21' AGL/2200' MSL. Trees beginning 1667' from DER, 373' right of centerline, up to 116' AGL/2319' MSL. **Rwy 16**, trees beginning 31' from DER, 455' left of centerline, up to 109' AGL/2279' MSL. Trees beginning 2587' from DER, 621' right of centerline, up to 104' AGL/2264' MSL. **Rwy 22**, trees beginning 1461' from DER, 211' right of centerline, up to 90' AGL/2270' MSL. **Rwy 34**, aircraft 23' from DER, 218' left of centerline, up to 21' AGL/2230' MSL. Trees beginning 2678' from DER, 18' left of centerline, up to 165' AGL/2375' MSL. Vehicles beginning 74' from DER, 339' right of centerline, up to 15' AGL/2234' MSL. Trees beginning 2219' from DER, 260' right of centerline, up to 100' AGL/2382' MSL.

DILLON, MT

DILLON

TAKE-OFF MINIMUMS: **Rwys 3, 21**, NA.

DEPARTURE PROCEDURE: **Rwys 16, 34**, turn right, climb in DLN VOR/DME holding pattern (N, right turns, 185° inbound) to cross DLN VOR/DME at or above; northwestbound V257 8500; southwestbound V121 8500; northbound V21 7600; southeastbound V21, V257 9400.

DOUGLAS, WY

CONVERSE COUNTY

TAKE-OFF MINIMUMS: **Rwy 5**, 300-2 or std. with a min. climb of 250' per NM to 5200. **Rwy 23**, 1700-3 or std. with a min. climb of 260' per NM to 7200.

DEPARTURE PROCEDURE: **Rwy 5**, climbing right turn via IIP VOR/DME R-342 to IIP VOR/DME. **Rwy 11**, climbing right turn via IIP VOR/DME R-312 to IIP VOR/DME. **Rwy 23**, climbing left turn via IIP VOR/DME R-264 to IIP VOR/DME. **Rwy 29**, climbing right turn via IIP VOR/DME R-325 to IIP VOR/DME. **All aircraft** departing IIP R-253 CW R-180 climb on course. All others continue climb in IIP VOR/DME holding pattern (NW, left turns, 125° inbound) to cross IIP VOR/DME at or above: R-181 CW R-199 9600; R-200 CW R-252 8000.

NOTE: **Rwy 5**, trees 1883' from departure end of runway, 549' right of centerline, 35' AGL/5014' MSL. Trees 3407' from departure end of runway, 209' right of centerline, 35' AGL/5074' MSL. Trees 5458' from departure end of runway, 1954' right of centerline, 35' AGL/5132' MSL. **Rwy 23**, trees 2068' from departure end of runway, 1008' left of centerline, 35' AGL/4994' MSL. Trees 3130' from departure end of runway, 1215' left of centerline, 35' AGL/5014' MSL.

DRIGGS, ID

DRIGGS-REED MEMORIAL (DIJ)

AMDT 2 08157 (FAA)

DEPARTURE PROCEDURE: Use LAMON DEPARTURE.

EASTSOUND, WA

ORCAS ISLAND (ORS)

AMDT 1 09351 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, NA-Terrain. **Rwy 34**, 500-3 or std. w/ min. climb of 224' per NM to 600.

DEPARTURE PROCEDURE: **Rwy 34**, climbing right turn to 2000 to intercept HUH VORTAC R-210 to HUH VORTAC, then climb-in-hold (hold South, Left turns, 352° inbound) to cross HUH VORTAC at or above 3800 before proceeding on course.

NOTE: **Rwy 34**, trees beginning 330' from DER, 411' left of centerline, up to 120' AGL/139' MSL.

ELLENBURG, WA

BOWERS FIELD

TAKE-OFF MINIMUMS: **Rwys 7, 11**, 4600-3 or std. with a min. climb of 290' per NM to 7800. **Rwy 25**, 4700-3 or std. with a min. climb of 340' per NM to 7800. **Rwy 29**, 4600-3 or std. with a min. climb of 320' per NM to 7800.

DEPARTURE PROCEDURE: **Rwys 7, 29**, climbing right turn direct ELN VORTAC. **Rwys 11, 25**, climbing left turn direct ELN VORTAC. **All aircraft**, continue climbing in the ELN VORTAC holding pattern (W, right turns, 087° inbound) to MEA/MOCA for route of flight.

EPHRATA, WA

EPHRATA MUNI (EPH)

AMDT 3 09127 (FAA)

TAKE-OFF MINIMUMS: **Rwy 29**, NA-Obstacles.

DEPARTURE PROCEDURE: **Rwy 3**, climb heading 027° to 2300 before proceeding on course. **Rwy 11**, climb heading 112° to 2200 before proceeding on course. **Rwy 21**, climb heading 207° to 2800 before proceeding on course.

EUGENE, OR

MAHLON SWEET FIELD

DEPARTURE PROCEDURE: **Rwys 16L, 16R**, climb to 1000 then climbing right turn... **Rwys 34L, 34R**, climb to 1000 then climbing left turn...

...all aircraft climb direct EUG VORTAC, then climb in EUG VORTAC holding pattern (hold north, right turn, 175° inbound) to cross EUG VORTAC at or above MEA altitude before proceeding enroute.

NOTE: **Rwy 16R**, tree 1992' from departure end of runway, 832' left of centerline, 50' AGL/419' MSL. **Rwy 16L**, multiple trees and power poles beginning 872' from departure end of runway, 35' right of centerline, up to 50' AGL/437' MSL, multiple trees and power poles beginning 890' from departure end of runway, 77' left of centerline, up to 50' AGL/433' MSL. **Rwy 34R**, multiple trees beginning 2869' from departure end of runway, 186' right of centerline, up to 50' AGL/447' MSL. Tree 2535' from departure end of runway, 652' left of centerline, 50' AGL/428' MSL.

EVANSTON, WY

EVANSTON-UINTA COUNTY BURNS FIELD

DEPARTURE PROCEDURE: **Rwy 5**, climb via heading 050° and FBR VOR/DME R-243 to FBR VOR/DME. **Rwy 23**, climbing left turn via heading 030° and FBR VOR/DME R-243 to FBR VOR/DME.

All aircraft: cross FBR VOR/DME at or above MEA for direction of flight.

EVERETT, WA

SNOHOMISH COUNTY (PAINE FIELD)

TAKE-OFF MINIMUMS: **Rwy 29**, std. with a min. climb of 353' per NM to 800.

DEPARTURE PROCEDURE: **Rwys 11, 16L/R**, climbing right turn, thence... **Rwys 29, 34L/R**, climbing left turn, thence...

...for aircraft departing via V287 west bound, climb via PAE VOR/DME R-236 to 3000. All others, climb direct PAE VOR/DME, climb in PAE VOR/DME holding pattern (NW, RT, 149° inbound) to MEA for route of flight before proceeding on course.

NOTE: Rwy 11, multiple antennas on building, rod on obstruction light, and trees beginning 326' from departure end of runway, 387' right of centerline, up to 85' AGL/664' MSL. Tree 1156' from departure end of runway, 600' left of centerline, 93' AGL/672' MSL. **Rwy 16L**, multiple trees and pole beginning 588' from departure end of runway, 220' left of centerline, up to 118' AGL/697' MSL. Multiple trees, pole, and building beginning 449' from departure end of runway, 162' right of centerline, up to 78' AGL/657' MSL. **Rwy 16R**, multiple trees beginning 1228' from departure end of runway, 168' left of centerline, up to 140' AGL/699' MSL. Multiple trees beginning 707' from departure end of runway, 158' right of centerline, up to 118' AGL/687' MSL. **Rwy 29**, multiple trees beginning 45' from departure end of runway, 66' left of centerline, up to 111' AGL/630' MSL. Multiple trees beginning 343' from departure end of runway, 44' right of centerline, up to 110' AGL/689' MSL. **Rwy 34R**, multiple trees and pole beginning 3340' from departure end of runway, 180' right of centerline, up to 95' AGL/674' MSL. Tree 5762' from departure end of runway, 221' left of centerline, 103' AGL/682' MSL.

FAIRCHILD AFB (KSKA)

SPOKANE, WA ORIG, 08017

DEPARTURE PROCEDURES: **Rwy 5**, climb on track 048° to intercept SKA R-045 to 5300, then on course. **Rwy 23**, climb on track 241° to 3400, then on course.

TAKE-OFF OBSTACLES: **Rwy 23**, Terrain 2468' MSL, 194' from DER, 405' right of centerline. Terrain 2477' MSL, 461' from DER, 751' right of centerline. Terrain 2477' MSL, 509' from DER, 750' right of centerline.

FORT BENTON, MT

FORT BENTON

TAKE-OFF MINIMUMS: **Rwys 5, 23**, std. w/ min. climb of 274' per NM to 8900 or 5100-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 5, 23**, for climb in visual conditions: Cross Fort Benton Airport at or above 8900 MSL before proceeding on course.

FORT BRIDGER, WY

FORT BRIDGER

DEPARTURE PROCEDURE: **All aircraft** climb direct FBR VOR/DME. Aircraft departing; FBR R-210 CW R-135 climb on course; FBR R-136 CW R-209 cross FBR VOR/DME at or above 9000. (Hold NE, right turns, 215° inbound).

FRIDAY HARBOR, WA

FRIDAY HARBOR

TAKE-OFF MINIMUMS: **Rwy 34**, 500-1.

DEPARTURE PROCEDURE: Aircraft departing FHR NDB **Rwy 34**, climbing right turn direct FHR NDB, then climb on course. All other aircraft climb on course.

GILLETTE, WY

GILLETTE-CAMPBELL COUNTY (GCC)

AMDT 4 09071 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, std. w/ min. climb of 275' per NM to 5600, or 1200-3 for climb in visual conditions. **Rwy 21**, 600-3 or std. w/ min. climb of 425' per NM to 5200.

DEPARTURE PROCEDURE: **Rwy 16**, climb via heading 158° to 5100, before proceeding on course or, for climb in visual conditions cross Gillette-Campbell County airport at or above 5400 before proceeding on course. **Rwy 21**, climb via heading 206° to 5200, before proceeding on course.

NOTE: Rwy 3, windsock 1415' from DER, 100' left of centerline, 24' AGL/4366' MSL. Trees beginning 1976' from DER, 267' right of centerline, up to 30' AGL/4409' MSL. **Rwy 16**, tower and poles beginning 1.61 NM from DER, 1264' left of centerline, up to 57' AGL/4696' MSL. Post and trees beginning 1.77 NM from DER, 300' right of centerline, up to 51' AGL/4789' MSL. **Rwy 21**, fence 328' from DER, 267' left of centerline, 7' AGL/4352' MSL, trees 2077' from DER, 1011' right of centerline, 30' AGL/4449' MSL, tree 7029' from DER, 2378' right of centerline, 30' AGL/4729' MSL. **Rwy 34**, fence 1236' from DER, 723' left of centerline, 16' AGL/4380' MSL. Vehicle on road 1609' from DER, 419' left of centerline, 15' AGL/4394' MSL. Trees 3093' from DER, 936' right of centerline, 30' AGL/4449' MSL. Vehicle on road 1610' from DER. 419' left of centerline, 15' AGL/4380' MSL.

GOODING, ID

GOODING MUNI (GNG)

ORIG 08269 (FAA)

DEPARTURE PROCEDURE: **Rwy 7**, climb heading 068° to 5000 before turning left. **Rwy 25**, climb heading 233° to 5600 before turning right.

NOTE: Rwy 7, rising terrain 59' from departure end of runway, 479' right of centerline, up to 3754' MSL. Fence line 653' from departure end of runway, 332' right of centerline, 12' AGL up to 3751' MSL. Bushes starting 877' from departure end of runway, 420' right of centerline, 20' AGL up to 3795' MSL. **Rwy 25**, vehicle on road, 91' from departure end of runway, 257' left of centerline, up to 10' AGL/3678' MSL.

GRANGEVILLE, ID

IDAHO COUNTY (S80)

AMDT 1 08157 (FAA)

TAKE-OFF MINIMUMS: **Rwy 7**, 10 - Obstacles.

DEPARTURE PROCEDURE: **Rwy 25**, Use MELLR

DEPARTURE.

GRANTS PASS, OR

GRANTS PASS

TAKE-OFF MINIMUMS: **Rwy 12**, NA. **Rwy 30**, 4000-3 or std. with a min. climb of 360' per NM to 5000.

DEPARTURE PROCEDURE: **Rwy 30**, climb via heading 320 until passing 5000, then climbing right turn direct RBG VOR/DME. Cross RBG VOR/DME at or above MEA for route of flight.

GRAY AAF (KGRF)

FORT LEWIS, WA AMDT 2, 10098

Rwy 15, Standard

Rwy 33, 300-1*

* Or standard with minimum climb of 430/NM to 600.

DEPARTURE PROCEDURE: **Rwy 15**, Climb heading 147° to 700 then climbing left turn direct GRF NDB.

Rwy 33, Climb direct GRF NDB. Aircraft departing 330° CW 070° and 135° CW 260° bearing from GRF NDB climb on course. All others continue climb in GRF NDB holding pattern (hold NW, RT, 147° inbound) to cross GRF NDB at or above: 071° CW 134° bearing from GRF NDB, 8500; 261° CW 329° bearing from GRF NDB, 1500.

TAKE-OFF OBSTACLES: **Rwy 15**, Tree 100' AGL/439' MSL, 1848' from DER, 430' right of centerline. **Rwy 33**, Tree 100' AGL/479' MSL, 3465' from DER, 1338' left of centerline.

GREAT FALLS, MT

GREAT FALLS INTL

NOTE: **Rwy 7**, obstruction light on lighted wind sock 237' from departure end of runway, 519' left of centerline, 34' AGL/3694' MSL. Obstruction light on building 2226' from departure end of runway, 614' left of centerline, 78' AGL/3738' MSL. Building on 681' from departure end of runway, 583' right of centerline, 48' AGL/3688' MSL. Multiple light poles beginning 1359' from departure end of runway, 440' right of centerline, up to 90' AGL/3746' MSL. **Rwy 21**, pole 1544' from departure end of runway, 791' left of centerline, 45' AGL/3725' MSL. **Rwy 25**, windmill 2.3 NM from departure end of runway, 4197' right of centerline, 338' AGL/4003' MSL.

GREYBULL, WY

SOUTH BIG HORN COUNTY (GEY)

ORIG-A 09239 (FA)

TAKE-OFF MINIMUMS: **Rwy 25**, 300-1 or std. w/min. climb of 260' per NM to 4200.

DEPARTURE PROCEDURE: **All runways**, for departures on Gey bearings 320° CW 150°, climb in Gey NDB holding pattern to 9000 before departing on course, then continue climb to MEA or assigned altitude. Departures Gey bearings 150° CW 320° climb on course.

NOTE: **Rwy 25**, bush 4955' from DER, 1268' right of centerline, 2' AGL/4101' MSL.

GUERNSEY, WY

CAMP GUERNSEY

TAKE-OFF MINIMUMS: **Rwy 14**, 300-1 or std. with a min. climb of 320' per NM to 4700. **Rwy 32**, 1400-2 or std. with a min. climb of 320' per NM to 5800.

DEPARTURE PROCEDURE: **Rwy 14**, climb to 5600 via heading 150°. **Rwy 32**, climb to 5800 via heading 070°. **All aircraft** continue on course.

HAILEY, ID

FRIEDMAN MEMORIAL

TAKE-OFF MINIMUMS: **Rwy 13**, 2700-3 w/min. climb of 307' per NM to 6400, or 3600-3 for climb in visual conditions. **Rwy 31**, NA-obstacles.

DEPARTURE PROCEDURE: **Rwy 13**, Climbing right turn heading 149°, then on 160° course to HLE NDB, or for climb in visual conditions: cross Friedman Memorial Airport at or above 8800 heading 151°, then on 151° course to HLE NDB.

NOTE: **Rwy 13**, multiple trees beginning 763' from departure end of runway, 3' right of centerline, up to 100' AGL/5345' MSL. Multiple trees beginning 1.3 NM from departure end of runway, 2587' right of centerline, up to 100' AGL/6099' MSL.

HAMILTON, MT

RAVALLI COUNTY

DEPARTURE PROCEDURE: Use HAMEY RNAV DEPARTURE.

HAVRE, MT

HAVRE CITY-COUNTY (HVR)

AMDT 3 09351 (FAA)

TAKE-OFF MINIMUMS: **Rwy 8**, 300-1½ or std. w/min. climb of 217' per NM to 3300.

DEPARTURE PROCEDURE: **Rwy 3**, climb heading 032° to 3300 then climbing left turn to 8000 direct HVR VOR/DME thence...**Rwy 8**, climb heading 077° to 3300 then climbing left turn to 8000 via HVR R-025 to HVR VOR/DME thence...**Rwy 21**, climb heading 212° to 3300 then climbing right turn to 8000 direct HVR VOR/DME thence...**Rwy 26**, climb heading 257° to 3300 then climbing right turn to 8000 direct HVR VOR/DME thence...

...continue climb in hold in HVR VOR/DME holding pattern (hold west, right turns, 094° inbound) to cross HVR VOR/DME at or above 8000 before proceeding on course.

NOTE: **Rwy 3**, pole 2682' from DER, 1044' left of centerline, 21' AGL/2680' MSL. **Rwy 8**, obstruction light on windsock 59' from DER, 224' left of centerline, 9' AGL/2588' MSL. Tree 1192' from DER, 752' left of centerline, 25' AGL/2610' MSL. Tank 1.3 NM from DER, 2287' left of centerline, 57' AGL/2797' MSL. **Rwy 26**, light on windsock, 50' from DER, 225' right of centerline, 9' AGL/2589' MSL. Trees beginning 1617' from DER, 650' right of centerline, 25' AGL/2659' MSL.

HELENA, MT

HELENA RGNL (HLN)
ADMT 9 08269 (FAA)

TAKE-OFF MINIMUMS: **Rwy 5**, 2500-3 or std. w/ min. climb of 250' per NM to 8100, or 1600-3 for climb in visual conditions. **Rwy 9**, std. w/ min. climb of 240' per NM to 8100, or 1600-3 for climb in visual conditions. **Rwy 23**, 1600-3 or std. w/ min. climb of 560' per NM to 8100, or 1600-3 for climb in visual conditions. **Rwy 27**, 1600-3 or std. w/ min. climb of 390' per NM to 8100, or 1600-3 for climb in visual conditions. **Rwys 16, 34, NA**.
DEPARTURE PROCEDURE: **Rwys 5, 9**, climbing left turn heading 270°. **Rwys 23, 27**, climbing right turn heading 020°. **All Aircraft**: continue climb northwestbound via HLN R-318 to 8100, then climbing right turn direct HLN VORTAC, cross HLN VORTAC at or above 9000, before proceeding on course, or for climb in visual conditions: cross Helena Rgnl airport northbound at or above 5300 and continue climbing via HLN R-336 to WOKEN INT before proceeding on course.

NOTE: **Rwy 5**, ground beginning 5' from departure end of runway, 495' right of centerline, up to 3826' MSL. Fence beginning 423' from departure end of runway, 331' right of centerline, up to 10' AGL/3832' MSL. **Rwy 23**, pole 2198' from departure end of runway, 462' left of centerline, 76' AGL/3996' MSL, tree 1011' from departure end of runway, 379' left of centerline, 44' AGL/3964' MSL, rod on building 953' from departure end of runway, 321' left of centerline, 323' AGL/943' MSL, tree 1519' from departure end of runway, 142' right of centerline, 53' AGL/3953' MSL. **Rwy 27**, building 1593' from departure end of runway, 731' left of centerline, 58' AGL/6385' MSL. Ground beginning 101' from departure end of runway, 346' left of centerline, up to 3871' MSL. Tree 1567' from departure end of runway, 616' left of centerline, 47' AGL/3906' MSL.

HERMISTON, OR

HERMISTON MUNI

NOTE: **Rwy 4**, tower 379' left of departure end of runway, 50' AGL/698' MSL. **Rwy 22**, light pole 456' left of departure end of runway, 44' AGL/684' MSL.

HOQUIAM, WA

BOWERMAN

TAKE-OFF MINIMUMS: **Rwy 6**, 600-2 or std. with a min. climb of 260' per NM to 600.
DEPARTURE PROCEDURE: **Rwy 6**, climbing right turn heading 110°. **Rwy 24**, climb runway heading.
All aircraft climb to 600 continue climb on course.

HULETT, WY

HULETT MUNI (W43)
ORIG 07354 (FAA)

TAKE-OFF MINIMUMS: **Rwy 13**, std. w/ min. climb of 450' per NM to 6300, or 500-2½ w/ min. climb of 295' per NM to 7700, or 2200-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 13**, climb to 7700 via heading 132° before proceeding on course, or climb in visual conditions: cross Hulett Muni Airport at or above 6300 before proceeding on course. **Rwy 31**, climbing right turn on a heading between 090° clockwise to 115° from departure end of runway to 7700 before proceeding on course.

NOTE: **Rwy 13**, road 398' from departure end of runway, 37' left of centerline, 15' AGL/4296' MSL, truck on road 1126' from departure end of runway, 346' right of centerline, 15' AGL/4334' MSL, trees beginning 4945' from departure end of runway, across centerline, up to 100' AGL/4657' MSL. **Rwy 31**, terrain 104' from departure end of runway, 420' left of centerline, 4200' MSL, terrain 344' from departure end of runway, 233' left of centerline, 4207' MSL.

IDAHO FALLS, ID

IDAHO FALLS RGNL (IDA)
AMDT 4 09351 (FAA)

DEPARTURE PROCEDURE: **All aircraft** departing IDA R-160 CW R-040 climb on course. **All others** climb direct IDA VOR/DME. Continue climb in IDA holding pattern (South, left turns, 019° inbound) to cross IDA VOR/DME at or above 7500 before proceeding on course.

NOTE: **Rwy 2**, pole 1039' from DER, 758' left of centerline, 42' AGL/4762' MSL. **Rwy 17**, trees, flagpole, building, light and vent on buildings, and vehicle on road beginning 29' from DER, 10' right of centerline, up to 84' AGL/4820' MSL. Trees and vent on building beginning 569' from DER, 22' left of centerline, up to 35' AGL/4760' MSL. Trees, antenna, and light poles beginning 1853' from DER, 26' right of centerline, up to 121' AGL/4851' MSL. **Rwy 35**, trees and railroad beginning 410' from DER, 503' right of centerline, up to 49' AGL/4769' MSL. Tree 1034' from DER, 715' left of centerline, 42' AGL/4762' MSL.

JACKSON, WY

JACKSON HOLE

DEPARTURE PROCEDURE: **Rwy 1**, use GEYSER DEPARTURE. **Rwy 19**, use TETON DEPARTURE.

TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

JEROME, ID

JEROME COUNTY (JER)

AMDT 2 09295 (FAA)

TAKE-OFF MINIMUMS: **Rwy 9**, 500-1¼ or std. w/ min. climb of 435' per NM to 4700.

DEPARTURE PROCEDURE: **Rwy 9**, climb heading 086° to 5300 before proceeding on course. **Rwy 27**, climb heading 266° to 4800 before proceeding on course.

NOTE: **Rwy 9**, bush 140' from DER, 500' left of centerline, 16' AGL/4076' MSL. Poles starting 1432' from DER, 32' left of centerline, up to 47' AGL/4169' MSL. Sign 1473' from DER, 547' left of centerline, 49' AGL/4119' MSL. Obstruction light on building 1510' from DER, 6' left of centerline, 43' AGL/4103' MSL. Trees starting 1651' from DER, 100' left of centerline, up to 53' AGL/4137' MSL. Building 2186' from DER, 173' left of centerline, 29' AGL/4119' MSL. Rising terrain starting 2549' from DER, 560' left of centerline, up to 4219' MSL. AG equip 4752' from DER, 517' left of centerline, 26' AGL/4175' MSL. Poles starting 600' from DER, 254' right of centerline, up to 48' AGL/4173' MSL. **Rwy 27**, fence starting 18' from DER, 440' left of centerline, up to 9' AGL/3969' MSL.

JOHN DAY, OR

GRANT COUNTY RGNL/OGILVIE FIELD
(GCD)

AMDT 1 09015 (FAA)

TAKE-OFF MINIMUMS: **Rwys 9, 17, 35**, NA, Terrain.

DEPARTURE PROCEDURE: **Rwy 27**, climbing left turn to 12000 heading 270° and IMB R-100 to IMB VORTAC, climb in IMB VORTAC holding pattern (E, right turns, 280° inbound) to cross IMB VORTAC at or above MEA for route of flight.

NOTE: **Rwy 27**, fence beginning 195' from departure end of runway, 50' right of centerline, up to 16' AGL/3665' MSL. Trees beginning 229' from departure end of runway, 261' right of centerline, up to 26' AGL/3662' MSL. Bush 389' from departure end of runway, 438' right of centerline, 20' AGL/3659' MSL.

KALISPELL, MT

GLACIER PARK INTL

DEPARTURE PROCEDURE: Use SKOTT
DEPARTURE.

KELSO, WA

SOUTHWEST WASHINGTON RGNL (KLS)

AMDT 3 10098 (FAA)

TAKE-OFF MINIMUMS: **Rwy 12**, NA, terrain. **Rwy 30**, std. with a min. climb of 370' per NM to 1900 or 1900-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 30**, climb heading 303° to 1900 then climbing right turn to 3900 direct LSO NDB. Continue climb in LSO NDB holding pattern (North, right turns, 175° inbound) to cross LSO NDB at or above 3900, then via BTG R-310 to BTG VORTAC. For climb in visual conditions: cross Southwest Washington Rgnl at or above 1800, then via BTG R-309 to BTG VORTAC.

NOTE: **Rwy 30**, light pole 22' from DER, 301' right of centerline, 30' AGL/49' MSL. Windssock 235' from DER, 348' left of centerline, 30' AGL/49' MSL. Rotating beacon 502' from DER, 425' left of centerline, 50' AGL/70' MSL. Multiple trees beginning 213' from DER, 530' right to 747' left of centerline, up to 136' AGL/155' MSL. Pole 964' from DER, 44' right of centerline, 30' AGL/50' MSL.

KEMMERER, WY

KEMMERER MUNI (EMM)

AMDT 1 09239 (FAA)

TAKE-OFF MINIMUMS: **Rwys 4, 10, 22, 28**, NA -Rwy surfaces.

DEPARTURE PROCEDURE: **Rwy 16**, climb to 12000 via heading 166° and FBR VOR/DME R-330 to FBR VOR/DME before proceeding on course. **Rwy 34**, climb via heading 346° to 8200 then climbing right turn to 12000 via heading 125° and FBR VOR/DME R-345 to FBR VOR/DME before proceeding on course.

KLAMATH FALLS, OR

KLAMATH FALLS

TAKE-OFF MINIMUMS: **Rwy 7**, NA. **Rwy 14**, 1100-3 or std. with a min. climb of 275' per NM to 5500. **Rwy 25**, 3300-3 or std. with a min. climb of 250' per NM to 7400. **Rwy 32**, 2000-3 or std. with a min. climb of 320' per NM to 6300.

DEPARTURE PROCEDURE: **Rwys 14, 25**, climb via runway heading to 6000 then climbing right turn direct LMT VORTAC, thence... **Rwy 32**, climb via runway heading to 5500 then climbing left turn direct LMT VORTAC, thence... climb in LMT holding pattern (W, right turns, 070° inbound) to cross LMT VORTAC at or above 8000.

LA GRANDE, OR

LA GRANDE/UNION COUNTY

TAKE-OFF MINIMUMS: **Rwy 12**, Cat A/B 2900-3 or std. with a min. climb of 350' per NM to 6100. Cat C/D 4500-3 or std. with a min. climb of 500' per NM to 7800. **Rwy 30**, Cat A/B 2900-3 or std. with a min. climb of 350' per NM to 6100. Cat C/D 3600-3 or std. with a min. climb of 450' per NM to 6800. **Rwy 34**, 2900-3 or std. with a min. climb of 350' per NM to 6100. **Rwy 16**, 2000-3 or std. with a min. climb of 500' per NM to 5000.

DEPARTURE PROCEDURE: **Rwy 12, 16**, climbing left turn direct LGD NDB, thence; **Rwys 30, 34**, climbing right turn heading 010°, thence; **all aircraft** climb to 7000 via the 339° bearing from LGD NDB, then climbing right turn direct LGD NDB.

LAKEVIEW, OR

LAKE COUNTY

TAKE-OFF MINIMUMS: **Rwy 16**, 3700-5 or std. with a min. climb of 320' per NM to 8800. **Rwy 34**, 2500-5 or std. with a min. climb of 320' per NM to 8500.

DEPARTURE PROCEDURE: **Rwy 16**, climbing right turn via LKV R-163 to LKV VORTAC. **Rwy 34**, climbing left turn heading 320° to intercept LKV R-148 then via LKV R-148 to LKV VORTAC. **All aircraft** continue climbing in the LKV VORTAC holding pattern (NW, right turns, 148° inbound) to MEA for route of flight.

LARAMIE, WY

LARAMIE RGNL

DEPARTURE PROCEDURE: **Rwy 3**, turn left.

Rwys 12, 21, turn right. **All aircraft** climb direct LAR VORTAC, continue climb in holding pattern (W, left turns, 107° inbound) to cross LAR VORTAC at or above: westbound V4, 10600. All others cross LAR VORTAC at or above MEA for direction of flight.

LAUREL, MT

LAUREL MUNI

TAKE-OFF MINIMUMS: **Rwys 9, 14, 27, 32**, NA.

DEPARTURE PROCEDURE: **Rwy 22**, turn left.

All aircraft climb direct BIL VORTAC.

LEWISTON, ID

LEWISTON-NEZ PERCE COUNTY

DEPARTURE PROCEDURE: **Rwys 8, 11, 26, 29**, turn left direct MQG VOR/DME. Continue climb in holding pattern (W, left turns, 066° inbound) to cross MQG VOR/DME at or above 3600.

LEWISTOWN, MT

LEWISTOWN MUNI

TAKE-OFF MINIMUMS: **Rwy 2**, 1800-2 or std. with a min. climb of 280' per NM to 6900. **Rwy 7, 12**, 900-2 or std. with a min. climb of 220' per NM to 6200.

DEPARTURE PROCEDURE: **Rwys 2, 30** turn left.

Rwys 7, 12, 20, turn right. **Rwy 25**, climb runway heading. **All aircraft** climb direct LWT VORTAC. Continue climb in holding pattern (W, right turns, 094° inbound) to MEA for route of flight.

LEXINGTON, OR

LEXINGTON

TAKE-OFF MINIMUMS: **Rwy 26**, std. with min. climb of 280' per NM to 7600, or 1600-2 ½ for climb in visual conditions. **Rwy 8**, std. with min. climb of 490' per NM to 4200, or 1600-2 ½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 8, 26**, for climb in visual conditions: cross Lexington Airport at or above 3600.

NOTES: **Rwy 8**, trees 1.42 NM from departure end of runway, 2386' left of centerline, 100' AGL/2159' MSL. Trees 1.48 NM from departure end of runway, 2755' left of centerline, 100' AGL/2179' MSL.

LIBBY, MT

LIBBY

TAKE-OFF MINIMUMS: **Rwy 33**, not authorized.

Rwy 15, use EYESE RNAV DEPARTURE.

LIVINGSTON, MT

MISSION FIELD (LVM)

AMDT 3 09071 (FAA)

TAKE-OFF MINIMUMS: **Rwys 8, 13, 26, 31**, NA-Environmental.

DEPARTURE PROCEDURE: **Rwys 4, 22**, use LIVINGSTON DEPARTURE.

MADRAS, OR

MADRAS MUNI (S33)

ORIG-A 09043 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, std. w/ a min. climb of 298' per NM to 3900 or 1100-2 ½ for climb in visual conditions. **Rwy 22**, std. w/ a min. climb of 281' per NM to 3900 or 1100-2 ½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 4, 34**, climbing left turn heading 210° and DSD R-348 to DSD VORTAC to 7000 before proceeding on course. **Rwy 16**, climbing right turn heading 210° and DSD R-348 to DSD VORTAC to 7000 before proceeding on course, or . . . **Rwy 22**, climb heading 216° and DSD R-348 to DSD VORTAC to 7000 before proceeding on course, or . . . for climb in visual conditions: cross Madras Muni at or above 3400 MSL, then direct DSD VORTAC to 7000 before proceeding on course.

MC CALL, ID

MC CALL MUNI (MYL)

AMDT 2 09127 (FAA)

TAKE-OFF MINIMUMS: **Rwy 34**, NA-Obstacles.

DEPARTURE PROCEDURE: **Rwy 16**, use MCCALL DEPARTURE.

MC CHORD AFB (KTCM)

TACOMA, WA 09127

DEPARTURE PROCEDURE: **Rwy 16**, Track heading 160°, turn left to intercept SEA VORTAC R-168 (V495) to SEA 168/37.1 DME (ALDER). Cross ALDER at or above 4000. After ALDER, maintain MEA/MOCA for route of flight. **Rwy 34**, Track heading 340°, then turn right to intercept SEA VORTAC R-168 (V495) to SEA R-168/37.1 DME (ALDER). Cross ALDER at or above 4000. Maintain MEA/MOCA for route of flight.

TAKEOFF OBSTACLES: **Rwy 16**, Grove of trees 143' AGL/454' MSL, 4892' from DER, 1353' left of centerline. Grove of trees 102' AGL/419' MSL, 2395' from DER, 1028' right of centerline. Trees 136' AGL/447' MSL, 2867' from DER, 1261' left of centerline. Trees 120' AGL/430' MSL, 2594' from DER, 1113' left of centerline. Trees 85' AGL/394' MSL, 2310' from DER, 957' left of centerline. Trees 83' AGL/392' MSL, 2006' from DER, 959' left of centerline. Trees 87' AGL/389' MSL, 1758' from DER, 971' left of centerline. **Rwy 34**, Tree 106' AGL/348' MSL, 2307' from DER, 1038' left of centerline. Tree 121' AGL/370' MSL, 3190' from DER, 526' right of centerline. Aircraft 65' AGL/317' MSL, 186' from DER, 407' left of centerline. Tree 64' AGL/343' MSL, 2260' from DER, 1036' left of centerline. Building 40' AGL/321' MSL, 1668' from DER, 810' left of centerline.

MC MINNVILLE, OR

MC MINNVILLE MUNI (MMV)

AMDT 4 08325 (FAA)

TAKE-OFF MINIMUMS: **Rwy 4**, 400-1¼ or std. w/ min. climb of 238' per NM to 400, or alternatively, with standard take-off minimums and normal 200'/NM climb gradient, take-off must occur no later than 2000' prior to departure end of runway. **Rwy 17**, std. w/ min. climb of 300' per NM to 1200 or 1800-2½ for climb in visual conditions. **Rwy 22**, std. w/ min. climb of 303' per NM to 1400 or 1800-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 4**, climb heading 038° to intercept UBG R-170 to UBG VOR/DME, thence ...

Rwy 17,22, climbing left turn to intercept UBG R-183 to UBG VOR/DME, thence ... or for climb in visual conditions: cross Mc Minnville Muni at or above 1800 before proceeding on course. **Rwy 35**, climb heading 347° to intercept UBG R-221 to UBG VOR/DME, thence...

... continue climb in UBG VOR/DME holding pattern (S, left turns, 003° inbound) until reaching MEA for route of flight.

NOTE: **Rwy 4**, multiple trees beginning 2040' from departure end of runway, 353' left and 209' right of centerline, up to 100' AGL/339 feet MSL. **Rwy 17**, tree 1719' from departure end of runway, 456' right of centerline, 100' AGL/231' MSL. Tree 1760' from departure end of runway, 627' left of centerline, 100' AGL/257' MSL. **Rwy 22**, multiple trees beginning 282' from departure end of runway, 120' left and 144' right of centerline, up to 100' AGL/246' MSL. Tree 4047' from departure end of runway, 1319' left of centerline, 100' AGL/284' MSL. **Rwy 35**, multiple trees beginning 1551' from departure end of runway, 229' right of centerline, up to 100' AGL/277' MSL.

MEDFORD, OR

ROGUE VALLEY INTL-MEDFORD (MFR)

AMDT 9 09015 (FAA)

TAKE-OFF MINIMUMS: **Rwys 9,27**, NA-Obstacles.

Rwy 14, std. w/ min. climb of 430' per NM to 4600, or 2900-3 for climb in visual conditions. **Rwy 32**, std. with a min. climb of 260' per NM to 6800, or 2900-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 14**, climbing right turn direct OED VORTAC, or for climb in visual conditions, cross Rogue Valley Intl airport at or above 4100 before proceeding direct OED VORTAC...

Rwy 32, climbing right turn direct OED VORTAC, or for climb in visual conditions, cross Rogue Valley Intl airport at or above 4100 before proceeding direct OED VORTAC...

...all aircraft climb in OED VORTAC holding pattern (hold NW, right turns, 153° inbound) to cross OED VORTAC at or above 6400.

MISSOULA, MT

MISSOULA INTL (MSO)

AMDT 8 08213 (FAA)

TAKE-OFF MINIMUMS: **Rwys 7,25**, NA-Obstacles.

DEPARTURE PROCEDURE: **Rwys 11, 29**, use GRZLY DEPARTURE.

MOSES LAKE, WA

GRANT COUNTY INTL

NOTE: **Rwy 14R**, antenna 3902' from departure end of runway, 828' right of centerline, 98' AGL/1268' MSL.

Rwy 18, pole 405' from departure end of runway, 334' right of centerline, 30' AGL/1209' MSL. Windsock 496' from departure end of runway, 371' left of centerline, 16' AGL/1195' MSL. **Rwy 32L**, pole 1326' from departure end of runway, 373' left of centerline, 22' AGL/1202' MSL.

MOUNTAIN HOME AFB (KMUO)

MOUNTAIN HOME, ID 07270

Rwy 12,30, 6700-3*

* Or standard with minimum climb of 270'/NM to 9100.

TAKE-OFF OBSTACLES: **Rwy 12**, Terrain 0' AGL/3028' MSL, 1224' from DER, 744' right of centerline. Terrain 0' AGL/3035' MSL, 824' from DER, 721' right of centerline. Terrain 0' AGL/3035' MSL, 507' from DER, 636' right of centerline. Terrain 0' AGL/3022' MSL, 49' from DER, 202' right of centerline. Terrain 0' AGL/3018' MSL, 148' from DER, 328' left of centerline. Terrain 0' AGL/3016' MSL, 300' from DER, 580' left of centerline. Road/Vehicle 15' AGL/3044' MSL, 1147' from DER, 794' right of centerline. Power pole 35' AGL/3069' MSL, 2914' from DER, 940' right of centerline. Tower 30' AGL/3032' MSL, 1067' from DER, 902' right of centerline. Tower 28' AGL/3039' MSL, 1172' from DER, 796' right of centerline. Tower 45' AGL/3054' MSL, 2152' from DER, 1478' left of centerline. **Rwy 30**, Terrain 0' AGL/2995' MSL, 40' from DER, 492' left of centerline. Terrain 0' AGL/2999' MSL, 370' from DER, 467' right of centerline. Terrain 0' AGL/3006' MSL, 507' from DER, 636' right of centerline. Terrain 0' AGL/3007' MSL, 570' from DER, 653' right of centerline. Road/Vehicle 35' AGL/3019' MSL, 954' from DER, 773' left of centerline.

MOUNTAIN HOME, ID

MOUNTAIN HOME MUNI

TAKE-OFF MINIMUMS: **Rwy 10**, 3500-2 or std. with a min. climb of 305' per NM to 7300. **Rwy 28**, 3500-2 or std. with a min. climb of 290' per NM to 7300.

DEPARTURE PROCEDURE: **Rwy 10**, climbing left turn direct STI NDB. **Rwy 28**, climbing right turn direct STI NDB. All aircraft departing STI NDB bearing 080° CW 340° climb on course. All others continue climb in hold (E, left turns, 271° inbound) to cross STI NDB at or above 7300.

NAMPA, ID

NAMPA MUNI

DEPARTURE PROCEDURE: **Rwy 11**, climbing right turn direct MPA NDB, continue climb in MPA holding pattern (NW, right turns, 145° inbound). Depart MPA NDB at or above 5500 before proceeding on course.

Rwy 29, climb runway heading to 3700 then climbing right turn direct MPA NDB, continue climb in MPA holding pattern (NW, right turns, 145° inbound). Depart MPA NDB at or above 5500 before proceeding on course.

NOTE: **Rwy 11**, 70' AGL tree, 1225' from departure end of runway, 90' right of centerline.

NEWCASTLE, WY

MONDELL FIELD (ECS)

AMDT 3A 09267 (FAA)

TAKE-OFF MINIMUMS: **Rwy 5,17,23,35, NA. Rwy 13**, 200-1 or std. with a min. climb of 275' per NM to 4400'.
Rwy 31, 300-1 or std. with a min. climb of 300' per NM to 4600.

DEPARTURE PROCEDURE: **Rwy 31**, climbing left turn. **All aircraft** climb to 5500 via ECS R-143, then climbing right turn direct ECS VOR, continue climb on course.

NOTE: **Rwy 13**, fence posts, beginning 299' from DER, 218' left of centerline, up to 10' AGL/4190' MSL. Light on antenna 1951' from DER, 879' left of centerline, 84' AGL/4244' MSL. **Rwy 31**, multiple poles, beginning 74' from DER, 237' right of centerline, up to 20' AGL/4200' MSL. Bush 5787' from DER, 1441' right of centerline, 13' MSL/4363' MSL. Railroad 735' from DER, 314' right of centerline 30' AGL/4202' MSL. Road 207' from DER, 254' right of centerline, 15' AGL/4187' MSL.

NEWPORT, OR

NEWPORT MUNI

TAKE-OFF MINIMUMS: **Rwy 2, NA. Rwy 16**, 500-2 or std. with a min. climb of 310' per NM to 800.

DEPARTURE PROCEDURE: **Rwy 2, NA. Rwy 16**, turn right. **Rwy 34**, turn left. Aircraft departing via ONP R-180 CW R-320 depart on course. All others continue climbing via ONP R-200 to 1500 then climbing left turn direct ONP VORTAC. Cross ONP VORTAC at or above 2200.

NORTH BEND, OR

SOUTHWEST OREGON RGNL (OTH)

AMDT 4B 09071 (FAA)

TAKE-OFF MINIMUMS: **Rwy 4**, 800-2 or std. with a min. climb of 340' per NM to 900. **Rwy 13**, 800-2. **Rwys 16,34**, NA-Rwy closed. **Rwy 31**, 300-2 or std. with a min. climb of 240' per NM to 400.

DEPARTURE PROCEDURE: **Rwys 4,31**, turn left. **Rwys 13,22**, turn right. **All aircraft** climb via OTH VORTAC R-250 to 1300 then climbing right turn direct OTH VORTAC.

NOTE: **Rwy 13**, spire 3468' from departure end of runway, 1128' left of centerline, 55' AGL/243' MSL, multiple trees beginning 3068' from departure end of runway, 78' left of centerline, up to 132' AGL/291' MSL.

OAK HARBOR, WA

A J EISENBERG (OKH)

ORIG-A 09071 (FAA)

TAKE-OFF MINIMUMS: **Rwy 7**, 300-1. **Rwy 25**, 300-1 DEPARTURE PROCEDURE: **Rwy 7**, climb via heading 071° to 2000, then climbing right turn direct CVV VOR/DME. Continue climb on course. **Rwy 25**, climb via heading 251° to 2100, then climbing left turn direct CVV VOR/DME. Continue climb on course.

NOTE: **Rwy 7**, multiple trees beginning 1167' from DER, 212' left of centerline, up to 80' AGL/319' MSL. Multiple trees beginning 664' from DER, 208' right of centerline, up to 80' AGL/299' MSL. Fence 612' from DER, right and left of centerline, 10' AGL/229' MSL. Multiple bushes beginning 240' from DER, 64' left of centerline, up to 8' AGL/227' MSL. **Rwy 25**, cars on road 87' from DER, left and right of centerline, up to 15' AGL/174' MSL. Multiple trees beginning 2271' from DER, right and left of centerline, up to 80' AGL/279' MSL.

OLYMPIA, WA

OLYMPIA RGNL (OLM)

AMDT 5A 09127 (FAA)

TAKE-OFF MINIMUMS: **Rwy 17**, 300-2 or std. with a min. climb of 706' per NM to 600, or 2200-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 8**, climb heading 085° to 1000 then climbing left turn direct OLM VORTAC, thence... **Rwy 17**, climb heading 172° to 1200 then climbing right turn direct OLM VORTAC, thence... or climb in visual conditions to cross OLM VORTAC at or above 2300, thence... **Rwys 5,26,35**, climbing right turn direct OLM VORTAC, thence...

...continue climb in OLM VORTAC holding pattern (south, right turn, 356° inbound) to cross OLM VORTAC at or above MEA/MCA for route of flight.

NOTE: **Rwy 8**, multiple trees beginning 880' from DER, 214' left of centerline, up to 100' AGL/343' MSL. Multiple trees beginning 1636' from DER, 131' right of centerline, up to 100' AGL/320' MSL. **Rwy 17**, multiple trees beginning 1008' from DER, 24' left of centerline, up to 100' AGL/490' MSL. Multiple trees beginning 752' from DER, 3' right of centerline, up to 100' AGL/370' MSL. **Rwy 26**, multiple trees and WSK on building beginning 475' from DER, 595' left of centerline, up to 100' AGL/330' MSL. Multiple trees beginning 338' from DER, 339' right of centerline, up to 100' AGL/309' MSL. **Rwy 35**, multiple trees beginning 2176' from DER, 198' left of centerline, up to 100' AGL/313' MSL. Multiple trees and field light on hangar beginning 657' from DER, 621' right of centerline, up to 100' AGL/315' MSL.

OMAK, WA

OMAK

TAKE-OFF MINIMUMS: **Rwy 17**, 2200-2 or std. with a min. climb of 300' per NM to 4200. **Rwy 35**, NA.

DEPARTURE PROCEDURE: **Rwy 17**, use GETNG RNAV DEPARTURE. **Rwy 35**, NA.

ONTARIO, OR

ONTARIO MUNI (ONO)

AMDT 3 08325 (FAA)

DEPARTURE PROCEDURE: **Rwy 32**, climb to 9600 on a heading between 010° CW to 141° from departure end of runway or minimum climb of 280' per NM to 9600 for all other courses.

NOTE: **Rwy 14**, multiple trees, poles, and buildings beginning 90' from departure end of runway, 157' right of centerline up to 120' AGL/2314' MSL. Multiple trees, poles, and buildings beginning 502' from departure end of runway, 506' left of centerline up to 120' AGL/2314' MSL. **Rwy 32**, multiple trees, poles, and buildings beginning 340' from departure end of runway, 405' left of centerline up to 100' AGL/2458' MSL. Multiple trees, poles, and buildings beginning 2' from departure end of runway, 472' right of centerline up to 100' AGL/2431' MSL.

PASCO, WA

TRI-CITIES

DEPARTURE PROCEDURE: **All runways**, climb runway heading to 1000, thence... **Rwy 12**, turn left. All others turn right. **All aircraft** climb direct PSC VOR/DME before proceeding on course.

PENDLETON, OR

EASTERN OREGON RGNL AT PENDLETON (PDT)

AMDT 3 09183 (FAA)

DEPARTURE PROCEDURE: **Rwys 7, 29, 34**, climbing left turn direct PDT VORTAC, thence...

Rwys 11, 16, climbing right turn direct PDT VORTAC, thence...

Rwy 25, climb direct PDT VORTAC, thence...

...continue climb in PDT VORTAC holding pattern (West, left turn, 073° inbound) to cross PDT VORTAC at or above MEA before proceeding on course.

NOTE: **Rwy 16**, multiple trees beginning 232' from DER, 348' right of centerline, up to 100' AGL/1579' MSL.

Rwy 25, multiple antennas and terrain beginning 203' from DER, 259' left of centerline, up to 13' AGL/1512' MSL. **Rwy 29**, terrain 189' from DER, 247' left of centerline, 1493' MSL.

PINEDALE, WY

PINEDALE/RALPH WENZ FIELD (PNA)

AMDT 2 09295 (FAA)

TAKE-OFF MINIMUMS: **Rwy 29**, std. with a min. climb of 310' per NM to 8300, or 4900-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 11**, climbing right turn to 10000 via heading 190° and BPI R-040 to BPI VOR/DME before proceeding on course. **Rwy 29**, climbing left turn to 10000 via heading 230° and BPI R-020 to BPI VOR/DME before proceeding on course or for climb in visual conditions: cross Pinedale/Ralph Wenz Field at or above 11800 before proceeding on course.

PLENTYWOOD, MT

SHER-WOOD

NOTE: **Rwy 12**, multiple bushes beginning 47' from departure end of runway, 71' left of centerline, up to 12' AGL/2251' MSL. Multiple bushes beginning 362' from departure end of runway, 514' right of centerline, up to 12' AGL/2251' MSL. **Rwy 30**, multiple bushes and road beginning 68' from departure end of runway, 75' right of centerline, up to 12' AGL/2303' MSL. Multiple bushes beginning 217' from departure end of runway, 60' left of centerline, up to 12' AGL/2296' MSL.

POCATELLO, ID

POCATELLO RGNL (PIH)

AMDT 7 09351 (FAA)

DEPARTURE PROCEDURE: use KNURL ONE DEPARTURE.

POLSON, MT

POLSON

TAKE-OFF MINIMUMS: **Rwy 18**, N/A-extremely precipitous terrain. **Rwy 36**, standard with a min. climb of 270' per NM to 8400'.

DEPARTURE PROCEDURE: **Rwy 36**, Use ANGIL RNAV DEPARTURE.

NOTES: **Rwy 36**, Road 509' from departure end of runway, 2955' MSL. Trees 2.39 NM from departure end of runway, 3383' left of centerline, 100' AGL/3179 MSL.

Rapidly rising precipitous terrain left and right of centerline running along southern Flathead River ridges.

PORT ANGELES, WA

PORT ANGELES CGAS

DEPARTURE PROCEDURE: Copter departure, climb from landing area direct to EDIZ HOOK NDB.

Continue climb in holding pattern (NE, right turns, 237° inbound) to MEA for direction of flight.

WILLIAM R FAIRCHILD INTL

DEPARTURE PROCEDURE: **Rwys 8, 13, 26, 31**, use WATTFIVE DEPARTURE.

PORTLAND, OR

PORTLAND INTL (PDX)

AMDT 6 09015 (FAA)

TAKE-OFF MINIMUMS: **Rwy 3**, 500-3 or std. w/ min. climb of 400' per NM to 600. **Rwy 10L/R**, std. w/ min. climb of 270' per NM to 2900. **Rwy 21**, std. w/ min. of 310' per NM to 1800.

DEPARTURE PROCEDURE: **Rwy 3**, climb heading 025° to 700, then climbing left turn direct BTG VORTAC, thence... **Rwys 10L, 10R**, climb heading 099° to 500, then climbing left turn direct BTG VORTAC, thence... **Rwy 21**, climb heading 205.03 to 500, then climbing right turn direct BTG VORTAC, thence... **Rwys 28L, 28R**, climb heading 279° to 500, then climbing right turn direct BTG VORTAC, thence... continue climb in BTG VORTAC holding pattern (hold NW, right turns, 149° inbound) to cross BTG VORTAC at or above MCA/MEA before proceeding on course.

NOTE: **Rwy 3**, signs, tower, trees, and vehicle on road beginning 468' from departure end of runway, 28' left of centerline, up to 100' AGL/449' MSL. Poles, trees, and vehicle on road beginning 609' from departure end of runway, 7' left of centerline, up to 100' AGL/416' MSL. **Rwy 10L**, rising terrain and vehicle on road beginning 7' from departure end of runway, 376' left of centerline, up to 17' AGL/60' MSL. **Rwy 10R**, pole 1996' from departure end of runway, 758' right of centerline, 54' AGL/74' MSL. note: **Rwy 21**, trees beginning 1319' from departure end of runway, 155' right of centerline, up to 100' AGL/318' MSL. Poles and trees beginning 353' from departure end of runway, 36' left of centerline, up to 100' AGL/317' MSL. **Rwy 28L**, trees 1873' from departure end of runway, 836' left of centerline, 50' AGL/88' MSL.

Rwy 28R, multiple signs, poles, and vehicle on road beginning 876' from departure end of runway, 654' right of centerline, up to 27' AGL/69' MSL.

PORTLAND, OR (CON'T)

PORTLAND-HILLSBORO

TAKE-OFF MINIMUMS: **Rwy 30**, 200-1¼ or std. with a min. climb of 223' per NM to 500. Alternatively, with standard take-off minimums and a normal 200'/NM climb gradient, take-off must occur no later than 1600' prior to departure end of runway.

DEPARTURE PROCEDURE: **Rwy 12**, climbing right turn direct UBG VOR/DME... **Rwys 2, 20, 30**, climbing left turn direct UBG VOR/DME...

...all aircraft climb in UBG VOR/DME holding pattern (west, right turn, 108° inbound) to cross UBG VOR/DME at or above MEA/MCA for direction of flight before proceeding on course.

NOTE: **Rwy 2**, multiple roads beginning 246' from departure end of runway, 3' right of centerline, up to 15' AGL/220' MSL. **Rwy 12**, multiple trees beginning 1842' from departure end of runway, 222' left of centerline, up to 125' AGL/324' MSL. Multiple trees beginning 3629' from departure end of runway, 46' right of centerline, up to 143' AGL/332' MSL. **Rwy 20**, multiple trees and pole beginning 967' from departure end of runway, 118' left of centerline, up to 93' AGL/292' MSL. Vent of hangar 63' from departure end of runway, 428' left of centerline, 26' AGL/225' MSL. Multiple trees and antenna on building beginning 965' from departure end of runway, 449' right of centerline, up to 74' AGL/273' MSL. **Rwy 30**, multiple trees beginning 1664' from departure end of runway, 623' right of centerline, up to 194' AGL/363' MSL. Pole 702' from departure end of runway, 603' left of centerline, 26' AGL/215' MSL.

PORTLAND-TROUTDALE

TAKE-OFF MINIMUMS: **Rwy 7**, 3600-2 or std. with a min. climb of 380' per NM to 4100. **Rwy 25**, 900-2 or std. with a min. climb of 360' per NM to 1000.

DEPARTURE PROCEDURE: **Rwy 7**, turn left.

Rwy 25, turn right. All aircraft climb via BTGR-125 direct BTG VORTAC. Continue climb on BTG R-329 within 10 NM to cross BTG VORTAC at or above: BTG R-355 CW R-055 or R-085 CW R-115 5000; all others 2500.

POWELL, WY

POWELL MUNI

TAKE-OFF MINIMUMS: **Rwy 3, 16, 21, 34**, NA.

DEPARTURE PROCEDURE: **Rwy 13**, turn right.

Rwy 31, turn left. All aircraft climb direct COD VOR/DME. Aircraft departing COD R-350 CW R-170 climb on course. All others continue climb in COD VOR/DME holding pattern (N, left turns, 189° inbound) to cross COD VOR/DME at or above 8800

PRINEVILLE, OR

PRINEVILLE (S39)

AMDT 1 08213 (FAA)

TAKE-OFF MINIMUMS: **Rwy 10**, std. w/min. climb of 350 feet per NM to 6500, or 2400-3 for climb in visual conditions. **Rwy 15**, std. w/min. climb of 470' per NM to 6200, or 2400-3 for climb in visual conditions. **Rwy 28**, std. w/min. climb of 450' per NM to 6700, or 2400-3 for climb in visual conditions. **Rwy 33**, std. w/min. climb of 380' per NM to 6700, or 2400-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 10**, climb heading 102° to 6500 before proceeding on course or for climb in visual conditions cross Prineville Muni airport at or above 5600 before proceeding on course. **Rwy 15**, climb heading 154° to 6200 before proceeding on course or for climb in visual conditions cross Prineville Muni airport at or above 5600 before proceeding on course. **Rwy 28**, climb heading 282° to 6700 before proceeding on course or for climb in visual conditions cross Prineville Muni airport at or above 5600 before proceeding on course. **Rwy 33**, climb heading 334° to 6700 before proceeding on course or for climb in visual conditions cross Prineville Muni airport at or above 5600 before proceeding on course.

NOTE: **Rwy 10**, trees beginning 2693' from departure end of runway, 545' right of centerline, up to 100' AGL/3339' MSL. **Rwy 15**, trees beginning 1129' from departure end of runway, 697' right of centerline, up to 100' AGL/3319' MSL. **Rwy 28**, trees beginning 1803' from departure end of runway, 74' right of centerline, up to 100' AGL/3319' MSL. **Rwy 33**, trees beginning 2636' from departure end of runway, 379' right of centerline, up to 100' AGL/3319' MSL.

PULLMAN-MOSCOW, WA

PULLMAN-MOSCOW RGNL

TAKE-OFF MINIMUMS: **Rwy 5**, 300-1¼ with a min. climb of 278' per NM to 4400, or 4600-3 for climb in visual conditions. **Rwy 23**, 300-1 or std. with a min. climb of 361' per NM to 4700.

DEPARTURE PROCEDURE: **Rwy 5**, climbing left turn direct PUW VOR/DME, cross PUW VOR/DME at or above 4700, continue climb in PUW VOR/DME holding pattern (SW, left turn, 032° inbound) to cross PUW VOR/DME at or above MEA for direction of flight, or for climb in visual conditions; cross Pullman-Moscow Rgnl at or above 4500. **Rwy 23**, climbing left turn via PUW VOR/DME R-021, cross PUW VOR/DME at or above 4700, continue climb in PUW VOR/DME holding pattern (SW, left turn, 032° inbound) to cross PUW VOR/DME at or above MEA for direction of flight.

NOTE: **Rwy 5**, multiple trees and terrain left and right of centerline, beginning 614' from departure end of runway, 424' right of centerline up to 50' AGL/2677' MSL. Terrain 3503' from departure end of runway, 770' left of centerline, 50' AGL/2608' MSL. **Rwy 23**, multiple trees, terrain, fences, poles, and tanks beginning 669' from departure end of runway, 412' right of centerline, up to 52' AGL/2769' MSL.

PUYALLUP, WA

PIERCE COUNTY-THUN FIELD (PLU)
AMDT 1A 09071 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16, 34**, 300-1.

DEPARTURE PROCEDURE: **Rwy 16**, climbing right turn. **Rwy 34**, climb runway heading. **All aircraft** climb via SEAR-158 to COTNY INT/SEA 18.1 DME. Continue in COTNY holding pattern (Hold S, left turns, 338° inbound) to depart COTNY at or above: 001° CW 090° 3500, 090° 3500, 091° CW 120° 10,400, 121° CW 170° 2700, 171° CW 360° 1500.

NOTE: **Rwy 16**, light pole 511' from DER, 567' right of centerline, 40' AGL/552' MSL. Multiple poles on building beginning 187' from DER, 416' left of centerline, up to 575' MSL. Multiple trees beginning 363' from DER, 656' left of centerline to 540' right of centerline, up to 662' MSL. Vehicles on road beginning 1149' from DER, 512' right of centerline, up to 15' AGL/582' MSL. Terrain beginning 1293' from DER, 529' left of centerline to 352' right of centerline, up to 581' MSL. Pipe 1520' from DER, 303' left of centerline, 574' MSL. **Rwy 34**, multiple trees beginning 58' from DER, 591' left of centerline to 1029' right of centerline, up to 694' MSL. Flagpole 1155' from DER, 464' left of centerline, 578' MSL. Building 564' from DER, 410' left of centerline, 555' MSL.

RAWLINS, WY

TAKEALINS MUNI/HARVEY FIELD

TAKE-OFF MINIMUMS: **Rwy 4**, 600-2 or std. with a min. climb of 440' per NM to 7500. **Rwy 22**, 1500-2 or std. with a min climb of 365' per NM to 8700. **Rwys 10, 28**, NA.

DEPARTURE PROCEDURE: **Rwy 4**, turn right.

Rwy 22, turn left. Climb to 10000 via RWL R-200 and CKW R-080 to CKW VOR/DME then via assigned route. Aircraft departing eastbound V4 or V6 climb via RWL R-200 to assigned route then climb on course.

REDMOND, OR

ROBERTS FIELD (RDM)

AMDT 5 09183 (FAA)

TAKE-OFF MINIMUMS: **Rwy 22**, std. w/ min. climb of 269' per NM to 4700. **Rwy 28**, std. w/ min. climb of 276' per NM to 4800.

DEPARTURE PROCEDURE: **Rwy 4**, climbing left turn via heading 265° and DSD R-047 to DSD VORTAC, climb in DSD VORTAC holding pattern (hold North, right turn, 168° inbound) to cross DSD VORTAC at or above MEA for route of flight before proceeding on course. **Rwy 10**, climbing right turn via heading 240° and DSD R-090 to DSD VORTAC, climb in DSD VORTAC holding pattern (hold North, right turn, 168° inbound) to cross DSD VORTAC at or above MEA for route of flight before proceeding on course. **Rwy 22**, climb heading 222° and DSD R-090 to DSD VORTAC, climb in DSD VORTAC holding pattern (hold North, right turn, 168° inbound) to cross DSD VORTAC at or above MEA for route of flight before proceeding on course. **Rwy 28**, climbing left turn via heading 275° and DSD R-045 to DSD VORTAC, climb in DSD VORTAC holding pattern (hold North, right turn, 168° inbound) to cross DSD VORTAC at or above MEA for route of flight before proceeding on course.

NOTE: **Rwy 28**, numerous trees beginning 1' from DER, 356' right of centerline, 12' AGL/3079' MSL. Tree 364' from DER, 448' left of centerline, 15' AGL/3054' MSL.

RENTON, WA

RENTON MUNI (RNT)
AMDT 7 09351 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, std. with a min. climb of 405' per NM to 800, or 1100-2½ for climb in visual conditions. **Rwy 34**, 500-2¼ or std. with a min. climb of 315' per NM to 700.

DEPARTURE PROCEDURE: **Rwy 16**, climb heading 157° to 700, then climbing right turn direct SEA VORTAC, thence..., or for climb in visual conditions: cross Renton Muni Airport westbound at or above 1000 MSL, then proceed on SEAR R-029 to SEA VORTAC, thence... **Rwy 34**, Climb heading 337° to 700, then climbing left turn direct SEA VORTAC thenceClimb in SEA VORTAC holding pattern (East, left turns, 290° inbound) to cross SEA VORTAC at or above MEA/MCA for direction of flight.

NOTES: **Rwy 16**, trees, towers, lights and blast shield beginning 185' from DER, 4' left of centerline, up to 100' AGL/574' MSL. Trees, lights and sign beginning 40' from DER, 54' right of centerline, up to 100' AGL/297' MSL. **Rwy 34**, Trees and terrain beginning 1.6 NM from DER, 104' left of centerline, up to 100' AGL/485' MSL. Trees, terrain and wood piling beginning 75' from DER, 7' right of centerline, up to 100' AGL/426' MSL.

REXBURG, ID

REXBURG-MADISON COUNTY

DEPARTURE PROCEDURE: **Rwy 17**, climbing right turn. **Rwy 35**, climbing left turn. **All aircraft** climb via IDA VOR/DME R-015 to RIGBY Int to MEA for route of flight before proceeding on course.

NOTE: **Rwy 17**, 100' AGL trees 125' from departure end of runway, 350' left of centerline. **Rwy 35**, 100' AGL trees 350' from departure end of runway, 450' right of centerline. 100' AGL trees 750' from departure end of runway, 500' left of centerline.

RICHLAND, WA

RICHLAND

TAKE-OFF MINIMUMS: **Rwy 1**, 200-1 or std. w/min. climb of 310' per NM to 700. **Rwy 19**, std. w/min. climb of 480' per NM to 2300, or 1800-2½ for climb in visual conditions. **Rwy 26**, 500-2½ or std. w/min. climb of 309' per NM to 1000.

DEPARTURE PROCEDURE: **Rwy 1**, climbing right turn via heading 070° and PSC R-301 to PSC VOR/DME, thence...**Rwy 8**, climbing right turn direct PSC VOR/DME, thence...**Rwy 19**, climbing right turn via heading 040° and PSC R-269 to PSC VOR/DME, or for climb in visual conditions: cross Richland Airport at or above 2000 then proceed on PSC R-269, to PSC VOR/DME thence...**Rwy 26**, climbing right turn via heading 070° and PSC R-287 to PSC VOR/DME, thence...

...climb in PSC VOR/DME holding pattern (hold East, right turn, 291° inbound) to cross PSC VOR/DME at or above MEA for route of flight before proceeding on course.

NOTE: **Rwy 1**, crane and multiple poles 752' from departure end of runway, 477' right of centerline, up to 110' AGL/520' MSL. Trees 43' from departure end of runway, 414' left of centerline, 100' AGL/407' MSL. **Rwy 8**, multiple trees and railroad beginning 400' from departure end of runway, 252' right of centerline, up to 100' AGL/469' MSL. Multiple trees and railroad beginning 204' from departure end of runway, 241' left of centerline, up to 100' AGL/469' MSL. **Rwy 19**, multiple trees 64' from departure end of runway, 169' right of centerline, up to 100' AGL/679' MSL. Multiple trees, terrain, and buildings 22' from departure end of runway, 30' left of centerline, up to 100' AGL/479' MSL. **Rwy 26**, multiple trees, fence, and terrain beginning 458' from departure end of runway, 230' left of centerline, up to 100' AGL/839' MSL. Multiple posts, antenna, and terrain beginning 164' from departure end of runway, 255' right of centerline, up to 18' AGL/417' MSL.

RIVERTON, WY

RIVERTON RGNL (RIW)

AMDT 1 10042 (FAA)

DEPARTURE PROCEDURE: **Rwys 1, 10, 19, 28**, climbing right turn direct RIW VOR/DME. **All Aircraft** climb in RIW holding pattern (hold East, right turns, 287° inbound) to MEA for direction of flight.

NOTES: **Rwy 1**, sage brush beginning 35' from DER, left and right of centerline, up to 3' AGL/5499' MSL. **Rwy 10**, sage brush beginning 20' from DER, left and right of centerline, up to 3' AGL/5466' MSL. **Rwy 19**, sage brush beginning 49' from DER, 171' right of centerline, up to 3' AGL/5479' MSL. Windstocks beginning 154' from DER, 268' right of centerline, up to 28' AGL/5468' MSL. **Rwy 28**, sage brush, tower, and pole beginning 54' from DER, 154' right of centerline, up to 59' AGL/5679' MSL. Sage brush, fence, and poles beginning 132' from DER, 27' left of centerline, up to 67' AGL/5647' MSL.

ROCK SPRINGS, WY

ROCK SPRINGS-SWEETWATER COUNTY (RKS)

AMDT 6 10098 (FAA)

DEPARTURE PROCEDURE: **Rwy 3**, climb heading 032° to 8000 then climbing left turn direct OCS VOR/DME, continue climb in OCS VOR/DME holding pattern (hold East, right turns, 260° inbound) to cross OCS VOR/DME at or above MEA for route of flight. **Rwy 9**, climb heading 090° to 8200 then climbing left turn direct OCS VOR/DME, continue climb in OCS VOR/DME holding pattern (hold East, right turns, 260° inbound) to cross OCS VOR/DME at or above MEA for route of flight. **Rwy 21**, climb heading 212° to 8400, then climbing right turn direct OCS VOR/DME, continue climb in OCS VOR/DME holding pattern (hold East, right turns, 260° inbound) to cross OCS VOR/DME at or above MEA for route of flight. **Rwy 27**, climb heading 270° to 7900, then climbing right turn via OCS R-291 to OCS VOR/DME, continue climb in OCS VOR/DME holding pattern (hold East, right turns, 260° inbound) to cross OCS VOR/DME at or above MEA for route of flight.

NOTE: **Rwy 3**, vehicle on road beginning 22' from DER, 120' left of centerline, up to 20' AGL/6760' MSL, bushes beginning 178' from DER, 517' right of centerline, up to 15' AGL/6755' MSL. **Rwy 21**, bush 53' from DER, 221' left of centerline, 15' AGL/6737' MSL.

RONAN, MT

RONAN (7S0)

ORIG 09295 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, std. w/min. climb of 260' per NM to 9900 or 6100-3 for climb in visual conditions. **Rwy 34**, std. w/min. climb of 250' per NM to 9900 or 6100-3 in visual conditions.

DEPARTURE PROCEDURE: **Rwy 16**, climb to 8800 on a heading between 177° CW to 336° from DER or for climb in visual conditions, cross Ronan airport at or above 9000 before proceeding on course. **Rwy 34**, climb to 8800 on a heading between 336° CCW to 177° from DER or for climb in visual conditions, cross Ronan airport at or above 9000 before proceeding on course.

NOTE: **Rwy 16**, tree 485' from DER, 386' left of centerline 50' AGL/3149' MSL. **Rwy 34**, building 158' from DER, 370' left of centerline 40' AGL/3130' MSL. Tree 1358' from DER, 556' left of centerline 50' AGL/3149' MSL.

ROSEBURG, OR

ROSEBURG RGNL (RBG)

AMDT 5A 08297 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, std. with a min. climb of 642' per NM to 2000, or 1700-3 for climb in visual conditions. **Rwy 34**, std. with a min. climb of 760' per NM to 2000, or 1700-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 16**, climb direct RBG VOR/DME, or climb in visual conditions to cross Roseburg Airport southbound at or above 2200, then direct RBG VOR/DME. Then via RBG R-157 and right turn direct RBG VOR/DME to cross at or above the MCA or MEA for route of flight. **Rwy 34**, climb via heading 342° to 4000, or climb in visual conditions to cross Roseburg Airport northbound at or above 2200 and then via heading 342° to 4000. Then climbing left turn direct RBG VOR/DME, to cross RBG VOR/DME at or above MCA or MEA for route of flight. Aircraft that have not reached the MCA or MEA for route of flight continue climb via RBG R-157 and right turn direct RBG VOR/DME.

NOTE: **Rwy 16**, tower 1.56 NM from departure end of runway, 2231' right of centerline, 50' AGL/1201' MSL, tree 1.47 NM from departure end of runway, 1560' right of centerline, 21' AGL/980' MSL, tree 1.46 NM from departure end of runway, 1298' right of runway centerline, 45' AGL/964' MSL, pole 1.36 NM from departure end of runway, 921' right of centerline, 75' AGL/914' MSL, rod on airway beacon 1.29 NM from departure end of runway, 409' right of centerline, 52' AGL/891' MSL, tree 655' from departure end of runway, 347' right of runway centerline, 93' AGL/593' MSL, obstruction light on pole 691' from departure end of runway, 187' right of runway centerline, 117' AGL/557' MSL. **Rwy 34**, tree 1.10 NM from departure end of runway, 2003' left of runway centerline, 60' AGL/1179' MSL. Tree 5165' from departure end of runway, 1744' left of centerline, 64' AGL/1023' MSL. Obstruction light on pole 4850' from departure end of runway, 56' left of centerline, 15' AGL/894' MSL. Tree 4785' from departure end of runway, 48' left of runway centerline, 23' AGL/862' MSL. Tree 1.41 NM from departure end of runway, 1826' left of runway centerline, 17' AGL/896' MSL. Tree 4079' from departure end of runway, 508' left of runway centerline, 21' AGL/780' MSL. Tree 5067' from departure end of runway, 265' right of centerline, 43' AGL/802' MSL. Tree 4260' from departure end of runway, 345' right of centerline, 42' AGL/761' MSL. Tree 1465' from departure end of runway 329' right of runway centerline, 100' AGL/642' MSL. Tree 913' from departure end of runway, 217' right of runway centerline, 100' AGL/622' MSL. Tree 647' from departure end of runway, 345' right of runway centerline, 100' AGL/615' MSL. Hill 1065' from departure end of runway, 299' right of runway centerline 608' MSL. Trees beginning 60' from departure end of runway, 117' left of runway centerline, up to 16' AGL/554' MSL. Trees beginning 242' from departure end of runway, 209' right of runway centerline, up to 56' AGL/584' MSL. Vehicle on road 265' from departure end of runway, 229' right of runway centerline, 15' AGL/560' MSL. Multiple signs beginning 792' from departure end of runway, 550' left of runway centerline, up to 60' AGL/565' MSL. Bush 94' from departure end of runway, 228' right of runway centerline, 19' AGL/547' MSL. Bush 202' from departure end of runway, 92' left of centerline, 7' AGL/535' MSL. Pole 640' from departure end of runway, 354' left of runway centerline, 29' AGL/557' MSL.

SALEM, OR

MCNARY FIELD

TAKE-OFF MINIMUMS: **Rwy 13**, 600-2 or std. with a min. climb of 240' per NM to 800. **Rwy 16**, 600-2 or std. with a min. climb of 340' per NM to 800.

DEPARTURE PROCEDURE: Comply with SIDs or; **Rwys 31, 34**, turn right. **Rwy 16**, turn left. **Rwy 13**, climb heading 130°. **All aircraft** climb direct TURN O LOM/Int. Continue climb in holding (SE, left turns, 310° inbound) to cross TURN O LOM/INT at or above MEA for route of flight.

SALMON, ID

LEMHI COUNTY

TAKE-OFF MINIMUMS: **Rwy 17**, NA. **Rwy 35**, 4300-5 or std. with a min. climb of 390' per NM to 8000.

DEPARTURE PROCEDURE: **Rwy 17**, NA. **Rwy 35**, climb runway heading to 8000, then climbing left turn to 11,300 direct LKT VOR/DME before proceeding on course.

SANDPOINT, ID

SANDPOINT

TAKE-OFF MINIMUMS: **Rwy 1**, 4200-2 or std. with a min. climb of 520' per NM to 5800. **Rwy 19**, 2200-2 or std. with a min. climb of 480' per NM to 4600.

DEPARTURE PROCEDURE: **Rwy 1**, climbing right turn to COE VOR/DME via heading 200° and COE R-002. **Rwy 19**, climbing left turn to COE VOR/DME via heading 140° and COE R-002.

SARATOGA, WY

SHIVELY FIELD

TAKE-OFF MINIMUMS: **Rwy 23**, 400-1 or std. with a min. climb of 220' per NM to 7400.

DEPARTURE PROCEDURE: **Rwy 5**, turn left heading 280°. **Rwy 23**, turn right heading 340°. **All aircraft** climb to 9000 via 310° bearing from SAA NDB then continue climb on course.

SCAPPOOSE, OR

SCAPPOOSE INDUSTRIAL AIRPARK

DEPARTURE PROCEDURE: **Rwy 15**, climbing left turn direct BTG VORTAC. **Rwy 33**, climbing right turn direct BTG VORTAC. Aircraft departing BTG R-160 CW R-329 climbing left turn on course. All others climb in BTG VORTAC holding pattern (NW, right turns, 149° inbound) to cross BTG VORTAC at or above MEA/MCA for direction of flight.

NOTE: **Rwy 15**, 158' MSL tree 470' from departure end of runway, 499' right of centerline. **Rwy 33**, cross departure end of runway 33 at or above 35' AGL/90' MSL. 130' MSL tree 613' from departure end of runway, 414' right of centerline; 142' MSL trees 1343' from departure end of runway, 348' right of centerline.

SCOBEE, MT

SCOBEE

TAKE-OFF MINIMUMS: **Rwy 12**, std. with a min. climb of 280' per NM to 3400.

SEATTLE, WA

BOEING FIELD/KING COUNTY INTL

TAKE-OFF MINIMUMS: **Rwy 13L**, 500-3 w/ min. climb of 232' per NM to 800, or 1000-2½ for climb in visual conditions. **Rwy 13R**, std. w/ a min. climb of 476' per NM to 900, or 500-3 w/ a min. climb of 386' per NM to 900, or 1000-2½ for climb in visual conditions. **Rwy 31L**, std. w/ a min. climb of 386' per NM to 800, or 300-1½ w/ min. climb of 235' per NM to 800, or 1000-2 ½ for climb in visual conditions. **Rwy 31R**, std. w/ a min. climb of 334' per NM to 900, or 400-1¼ w/ min. climb of 216' per NM to 900, or 1000-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 13L/R**, climbing right turn. **Rwys 31L/R**, climbing left turn. All aircraft climb direct to SEA VORTAC, continue climb in SEA VORTAC holding pattern (hold east, left turns, 290° inbound) to cross SEA VORTAC at or above 3000. For climb in visual conditions cross Boeing Field/King County Intl Airport at or above 900, then climb to 3000 via SEAR-344 to SEA VORTAC, continue climb in SEA VORTAC holding pattern (hold east, left turns, 290° inbound) to cross SEA VORTAC at or above 3000.

NOTES: **Rwy 13L**, multiple trees, towers, antennas and building beginning 402' from departure end of runway, 411' left of centerline, up to 127' AGL/479' MSL.

Rwy 13R, multiple trees and poles beginning 35' from departure end of runway, 154' left of centerline, up to 66' AGL/485' MSL. Multiple trees and poles beginning 501' from departure end of runway, 3' right of centerline, up to 77' AGL/195' MSL. **Rwy 31L**, multiple trees, fence, and building beginning 250' from departure end of runway, 253' left of centerline, up to 71' AGL/101' MSL. Multiple trees and floodlights beginning 1245' from departure end of runway, 447' right of centerline, up to 71' AGL/239' MSL. **Rwy 31R**, multiple trees, hangers, towers, poles and building beginning 12' from departure end of runway, 389' right of centerline, up to 103' AGL/350' MSL. Multiple obstruction lights beginning 214' from departure end of runway, 99' left of centerline, up to 71' AGL/101' MSL.

SEATTLE-TACOMA INTL (SEA)

AMDT 4 08325 (FAA)

DEPARTURE PROCEDURE: **Rwys 16L, 16C, 16R**, climb to 1000 via heading 163°, then climbing right turn direct SEA VORTAC, thence...

Rwys 34L, 34C, 34R, climb to 1000 via heading 343°, then climbing left turn direct SEA VORTAC, thence...
...climb in SEA VORTAC holding pattern (hold SE, left turns, 310° inbound) to MEA/MCA for route of flight.

NOTE: **Rwy 16L**, trees beginning 2908' from departure end of runway, 1064' right of centerline, up to 100' AGL/476' MSL. **Rwy 16C**, trees beginning 4477' from departure end of runway, 484' right of centerline, up to 100' AGL/507' MSL. **Rwy 16R**, trees, antenna on building and light pole beginning 488' from departure end of runway, 436' left of centerline, up to 100' AGL/507' MSL. Trees beginning 1137' from departure end of runway, 587' right of centerline, up to 100' AGL/468' MSL. **Rwy 34L**, fence 189' from departure end of runway, 401' right of centerline, up to 12' AGL/420' MSL. Trees beginning 4010' from departure end of runway, 857' left of centerline, up to 100' AGL/522' MSL.

SHELBY, MT

SHELBY

TAKE-OFF MINIMUMS: **Rwy 5**, 200-1¼ or std. w/ min. climb of 212' per NM to 3700, or alternatively, w/ std. takeoff minimums and a normal 200'/NM climb gradient, takeoff must occur no later than 1300' prior to departure end of runway.

NOTE: **Rwy 5**, fence post 320' from departure end of runway, 162' right of centerline, 12' AGL/3455' MSL, truck on road beginning 515' from departure end of runway, 632' right of centerline, 17' AGL/3498' MSL, tree 1 NM from departure end of runway, 1242' left of centerline, 75' AGL/3604' MSL. **Rwy 11**, truck on road 906' from departure end of runway, 691' left of centerline, 17' AGL/3456' MSL, tree 1697' from departure end of runway, 26' right of centerline, 75' AGL/3495' MSL, tree 1561' from departure end of runway, 322' left of centerline, 75' AGL/3514' MSL, light standard 852' from departure end of runway, 174' left of centerline, 22' AGL/3451' MSL.

SHELTON, WA

SANDERSON FIELD

TAKE-OFF MINIMUMS: **Rwy 5**, std. w/ a min. climb of 312' per NM to 4000, or 1500-2½ for a climb in visual conditions. **Rwy 23**, std. w/ a min. climb of 414' per NM to 4000, or 1500-2½ for a climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 5**, climbing right turn to intercept SEA R-230 to CARRO intersection. Or for climb in visual conditions: Cross Sanderson Field northeast bound at or above 1600, thence via SEA R-230 to cross CARRO intersection at or above 4000. **Rwy 23**, climbing left turn to intercept SEA R-230 to CARRO intersection. Or for climb in visual conditions: Cross Sanderson Field northeast bound at or above 1600, thence via SEA R-230 to cross CARRO intersection at or above 4000.

NOTE: **Rwy 5**, multiple trees beginning 550' from departure end of runway, 107' left of centerline, up to 94' AGL/366' MSL. Multiple trees beginning 130' from departure end of runway, 70' right of centerline, up to 80' AGL/352' MSL. **Rwy 23**, multiple trees beginning 52' from departure end of runway, 149' left of centerline, up to 72' AGL/330' MSL. Multiple trees beginning 886' from departure end of runway, 153' right of centerline, up to 155' AGL/486' MSL.

SHERIDAN, WY

SHERIDAN COUNTY

TAKE-OFF MINIMUMS: **Rwy 5**, 700-3 or std. w/ min. climb of 318' per NM to 5100, or... **Rwy 14**, 800-3 or std. w/ min. climb of 263' per NM to 5100, or... **Rwy 23**, 900-3 or std. w/ min. climb of 348' per NM to 5100, or...
... 1400/3 for climb in visual conditions. Climb in visual conditions NA at night.

DEPARTURE PROCEDURE: **Rwy 5**, climbing left turn via SHR R-106 to SHR VORTAC, or climb in visual conditions to cross Sheridan County Airport northwestbound at or above 5300, then via SHR R-126 to SHR VORTAC, thence... **Rwy 14**, climbing left turn via heading 320° and SHR R-106 to SHR VORTAC, or climb in visual conditions to cross Sheridan County Airport northwestbound at or above 5300, then via SHR R-126 to SHR VORTAC, thence... **Rwy 23**, climbing right turn via SHR R-153 to SHR VORTAC, or climb in visual conditions to cross Sheridan County Airport northwestbound at or above 5300, then via SHR R-126 to SHR VORTAC, thence... **Rwy 32**, climb via heading 320° and SHR R-106 to SHR VORTAC, thence...
... climb in holding pattern (hold northwest, left turn, 133° inbound) to cross SHR VORTAC at or above airway MEA for route of flight.

NOTE: **Rwy 5**, multiple trees beginning 101' from departure end of runway, 188' left of centerline, up to 80' AGL/3991' MSL. **Rwy 23**, fence 1201' from departure end of runway, 10' left of centerline, 20' AGL/4060' MSL. Building 1949' from departure end of runway, 415' left of centerline, 17' AGL/4077' MSL. Tree 3337' from departure end of runway, 391' right of centerline, 43' AGL/4143' MSL. **Rwy 32**, antenna 53' from departure end of runway, 398' right of centerline, 20' AGL/4020' MSL.

SIDNEY, MT

SIDNEY-RICHLAND MUNI

TAKE-OFF MINIMUMS: **Rwy 28**, 400-2 or std. with a min. climb of 260' per NM to 2300.

SNOHOMISH, WA

HARVEY FIELD (S43)

ORIG 09127 (FAA)

TAKE-OFF MINIMUMS: **Rwys 15R, 33L**, NA-obstacles. **Rwy 15L**, std. w/ min. climb of 353' per NM to 1100, or 1200-2½ for climb in visual conditions. **Rwy 33R**, std. w/ min. climb of 475' per NM to 800, or 1200-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 15L**, climbing right turn on 344° course to WATON LOM, or for climb in visual conditions, cross Harvey Field at or above 1100 then proceed on 329° course to WATON LOM, thence... **Rwy 33R**, climb on 329° course to WATON LOM, or for climb in visual conditions, cross Harvey Field at or above 1100 then proceed on 329° course to WATON LOM, thence...

... aircraft departing WATON LOM on bearings 150° CW 340° from WATON LOM climb on course. Aircraft departing WATON LOM on bearings 340° CW 150° from WATON LOM, climb in holding pattern (South, left turns, 339° inbound) to cross WATON LOM at or above 4500 before proceeding on course.

NOTE: **Rwy 15L**, tree 81' from DER, 177' right of centerline, 40' AGL/106' MSL. Trees 685' from DER, left and right of centerline, up to 48' AGL/70' MSL. **Rwy 33R**, powerline 139' from DER, 226' left of centerline, 40' AGL/56' MSL. Tree 298' from DER, 205' right of centerline, 104' AGL/121' MSL. Tower 5708' from DER, 1956' right of centerline, 206' AGL/300' MSL.

SPOKANE, WA

FELTS FIELD (SFF)

AMDT 5 10098 (FAA)

TAKE-OFF MINIMUMS: **Rwy 3L**, std. w/min. climb of 450' per NM to 3600, or 2300-3 for climb in visual conditions. **Rwy 3R**, std. w/min. climb of 410' per NM to 3700, or 2300-3 for climb in visual conditions. **Rwy 21L**, std. w/min. climb of 375' per NM to 3200, or 2300-3 for climb in visual conditions. **Rwy 21R**, std. w/min. climb of 375' per NM to 3200, or 2300-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 3L, 3R**, climb heading 035° to 3600, then climbing right turn heading 210° and GEG R-050 to GEG VORTAC, or for climb in visual conditions: cross Felts Field Airport at or above 4100, then via heading 165° and GEG R-050 to GEG VORTAC. Cross GEG VORTAC at or above MCA/MEA for route of flight. **Rwys 21L, 21R**, climb heading 215° to 3200, then climbing left turn heading 190° and GEG R-050 to GEG VORTAC, or for climb in visual conditions: cross Felts Field Airport at or above 4100, then via heading 165° and GEG R-050 to GEG VORTAC. Cross GEG VORTAC at or above the MCA/MEA for route of flight.

NOTE: **Rwy 3L**, trees beginning 1853' from DER, 772' right of centerline, up to 100' AGL/2037' MSL. Trees beginning 3538' from DER, 529' left of centerline, up to 100' AGL/2339' MSL. Antenna, trees and transmission poles beginning 1.5 NM from DER, 16' left of centerline, up to 100' AGL/2579' MSL. Trees beginning 2.3 NM from DER, 723' right of centerline, up to 100' AGL/2499' MSL. **Rwy 3R**, hangar, NDB, and trees beginning 92' from DER, 269' right of centerline, up to 100' AGL/2040' MSL. Trees beginning 4685' from DER, 1033' left of centerline, up to 100' AGL/2339' MSL. Antenna, trees and transmission poles beginning 1.6 NM from DER, 525' left of centerline, up to 100' AGL/2559' MSL. Trees and transmission poles beginning 2.6 NM from DER, 214' right of centerline, up to 150' AGL/2570' MSL. **Rwy 21L**, elevator, pole on building and trees beginning 315' from DER, 302' left of centerline, up to 140' AGL/2080' MSL. **Rwy 21R**, poles and trees beginning 188' from DER, 13' right of centerline, up to 100' AGL/1982' MSL. Elevator, pole, hangar, and building beginning 203' from DER, 1' left of centerline, up to 140' AGL/2080' MSL. Terrain and trees beginning 3.1 NM from DER, 4904' left of centerline, up to 100' AGL/2559' MSL.

SPOKANE INTL

DEPARTURE PROCEDURE: **All aircraft** climb direct GEG VORTAC. Continue climb via R-208 within 10 miles to cross GEG VORTAC at or above: northeastbound V120-448, 5200; eastbound V2, 5200, southeast thru westbound climb on course.

STEVENSVILLE, MT

STEVENSVILLE

TAKE-OFF MINIMUMS: **Rwy 12**, do not exceed 210 knots until established on MSOR-163. **Rwy 30**, do not exceed 210 knots until established on MSOR-160.

DEPARTURE PROCEDURE: **Rwy 12**, climbing right turn via heading 335 and MSOR-163 to MSO VOR/DME climb in MSO VOR/DME holding pattern (southeast, right turn, 340° inbound) to 13000' before proceeding on course. **Rwy 30**, climbing right turn via heading 025° and MSOR-160 to MSO VOR/DME Climb in MSO VOR/DME holding pattern (southeast, right turn, 340° inbound) to 13000' before proceeding on course.

SUNRIVER, OR

SUNRIVER

TAKE-OFF MINIMUMS: **Rwy 18**, 300-1 or std. with a min. climb of 360' per NM to 4400. **Rwy 36**, 600-2 or std. with a min. climb of 240' per NM to 4900.

DEPARTURE PROCEDURE: **Rwy 18**, climb runway heading to 7000 then climbing left turn direct DSD VORTAC. **Rwy 36**, climb direct to DSD VORTAC. Then **all aircraft** climb on course.

TACOMA, WA

TACOMA NARROWS

TAKE-OFF MINIMUMS: **Rwy 35**, 400-1 or std. with a min. climb of 210' per NM to 400'.

DEPARTURE PROCEDURE: **Rwy 17**, turn right, climb via heading 230° to intercept OLM R-009 then direct OLM VORTAC. **Rwy 35**, turn left, climb via heading 270° to intercept SEA R-230 then direct CARRO INT. Continue climb in holding (SW, right turns, 047° inbound) to MEA or assigned altitude for route of flight.

THE DALLES, OR

COLUMBIA GORGE RGNL/THE DALLES MUNI

TAKE-OFF MINIMUMS: **Rwy 2**, CAT A,B 1100-2 or std. with a min. climb of 350' per NM to 1500. CAT C,D 2600-3 or std. with a min. climb of 475' per NM to 3100. **Rwy 7**, 900-3 or std. with a min. climb of 330' per NM to 1200. **Rwy 12**, 1400-3 or std. with a min. climb of 500' per NM to 2000. **Rwy 20**, 1800-3 or std. with a min. climb of 470' per NM to 2200. **Rwy 25**, NA. **Rwy 30**, 2900-3 or std. with a min. climb of 500' per NM to 2700.

DEPARTURE PROCEDURE: **Rwys 2,7**, climbing right turn heading 120°. **Rwy 12**, climb via runway heading. **Rwys 20, 30**, climbing left turn heading 120°. **All aircraft** intercept and climb southbound via LTJ R-165 to 3500. Then climbing left turn direct LTJ VORTAC. Continue climb in LTJ holding pattern (E, right turns, 260° inbound) to cross LTJ VORTAC at or above MCA or MEA for route of flight.

TILLAMOOK, OR

TILLAMOOK

TAKE-OFF MINIMUMS: **Rwys 1, 13, 19**, NA. **Rwy 31**, 2000-3 or std. with a min. climb of 350' per NM to 4500. DEPARTURE PROCEDURE: **Rwys 1, 13, 19**, NA. **Rwy 31**, use FETUJ RNAV DEPARTURE.

TORRINGTON, WY

TORRINGTON MUNI (TOR)

ORIG 10042 (FAA)

NOTE: **Rwy 2**, terrain 30' from DER, 277' left of centerline, 4197' MSL. **Rwy 10**, multiple trees and fence beginning 71' from DER, 143' right of centerline, up to 14' AGL/4214' MSL. Terrain 14' from DER, 502' left of centerline, 4199' MSL. **Rwy 28**, terrain 133' from DER, 386' right of centerline, 4213' MSL.

TWIN FALLS, ID

JOSLIN FIELD-MAGIC VALLEY RGNL

TAKE-OFF MINIMUMS: **Rwy 12**, NA.

DEPARTURE PROCEDURE: Aircraft departing on TWFR-240 CW R-080 climb on course. All others climb runway heading 6000 then climbing turn direct TWV VORTAC. Climb in holding pattern (NW, right turns, 113° inbound) to MCA or MEA as appropriate for direction of flight.

VANCOUVER, WA

PEARSON FIELD (VUO)

AMDT 2 07354 (FAA)

TAKE-OFF MINIMUMS: **Rwy 8**, std. w/ min. climb of 358' per NM to 600, or 500-3 w/ min. climb of 201' per NM to 600, or 900-2½ for climb in visual conditions.

Rwy 26, 600-3 or 900-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 8**, climb heading 079° to 500 then climbing left turn direct BTG VORTAC, thence... or for climb in visual conditions: cross Pearson Field at or above 800 MSL then proceed on BTG VORTAC R-179 to BTG VORTAC, thence... **Rwy 26**, climb heading 259° to 700 then climbing right turn direct BTG VORTAC, thence... or for climb in visual conditions: cross Pearson Field at or above 800 MSL then proceed on BTG VORTAC R-179 to BTG VORTAC, thence...

...continue climb in BTG VORTAC holding pattern (hold northwest, right turn, 149° inbound) to cross BTG VORTAC at or above MEA/MCA for route of flight.

NOTE: **Rwy 8**, tree 1.4 NM from departure end of runway, 1283' left of centerline, 100' AGL/395' MSL. Tree 1.7 NM from departure end of runway, 701' left of centerline, 100' AGL/401' MSL. Tree 2 NM from departure end of runway, 849' left of centerline, 100' AGL/406' MSL. Tree 2.4 NM from departure end of runway, 648' left of centerline, 100' AGL/399' MSL. **Rwy 26**, bridge 2704' from departure end of runway, 587' left of centerline, 243' AGL/245' MSL. Crane 1.5 NM from departure end of runway, 2563' right of centerline, 237' AGL/267' MSL. Transmission line tower 2.5 NM from departure end of runway, 2036' right of centerline, 516' AGL/534' MSL.

WALLA WALLA, WA

WALLA WALLA RGNL

DEPARTURE PROCEDURE: **Rwys 2, 7, 20, 25, 34**, turn left. **Rwy 16**, turn right. All aircraft climb to 2500 via ALW VOR/DME R-195, then climbing right turn direct ALW VOR/DME to cross ALW VOR/DME at or above MEA or MCA for route of flight.

NOTE: **Rwy 16**, antenna 365' from departure end of runway, 97' right of centerline, 1155' MSL. Terrain 1' from departure end of runway 140' left of centerline, 1145' MSL. **Rwy 20**, light 666' from departure end of runway, 640' left of centerline, 1170' MSL. **Rwy 34**, terrain 213' from departure end of runway, 230' right of centerline, 1130' MSL.

WEISER, ID

WEISER MUNI (S87)

ORIG 08269 (FAA)

TAKE-OFF MINIMUMS: **Rwy 12**, std. w/ min. climb of 310' per NM to 3900 or 2400-3 for climb in visual conditions. **Rwy 30**, std. w/ min. climb of 360' per NM to 4000 or 2400-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 12**, climb heading 121° to 3900 before proceeding on course. **Rwy 30**, climb heading 301° to 4000 before proceeding on course ... for climb in visual conditions: cross Weiser Muni airport at or above 4400 before proceeding on course.

NOTE: **Rwy 12**, tree 248' from departure end of runway, 443' right of centerline, 100' AGL/2184' MSL. **Rwy 30**, tree 1907' from departure end of runway, 769' right of centerline, 100' AGL/2174' MSL.

WENATCHEE, WA

PANGBORN MEMORIAL

TAKE-OFF MINIMUMS: **Rwy 7**, NA. **Rwy 12**, 1500-2 or std. with a min. climb of 510' per NM to 2900.

Rwys 25, 30, CAT A, B 1600-2 or std. with a min. climb of 360' per NM to 3100. CAT C, D 5500-3 or std. with a min. climb of 570' per NM to 7200.

DEPARTURE PROCEDURE: **Rwy 12**, climb runway heading. **Rwys 25, 30**, climbing left turn. All aircraft climb via EAT R-113 to 4000 then climbing left turn direct EAT VOR/DME. Aircraft departing EAT R-010 CW R-140 climb on course. All others continue climb in EAT VOR/DME holding pattern (E, right turns, 253° inbound) to cross EAT VOR/DME at or above: R-141 CW R-2007400; R-201 CW R-009, 8200.

WEST YELLOWSTONE, MT

YELLOWSTONE

TAKE-OFF MINIMUMS: **Rwy 19**, 2200-2 or std. with a min. climb of 245' per NM to 8900. FAR 135 AUTH:

Rwy 1, ½ mile.

DEPARTURE PROCEDURE: **Rwy 1**, turn right.

All aircraft climb direct TARGY LOM. Aircraft departing TARGY LOM on bearing 190° CW 220° climb on course. All others climb south on bearing 190° within 10 NM of TARGY LOM turn left and continue climbing direct TARGY LOM to cross TARGY LOM at or above: bearing 360° CW 190° 9300, bearing 220° CW 360° 10500

WHEATLAND, WY

PHIFER AIRFIELD

DEPARTURE PROCEDURE: **Rwy 8**, climbing left turn to 9000 via heading 030° to intercept IIP VOR/DME R-140° to JZZY Int, thence. . . **Rwy 26**, climbing right turn to 9000 via heading 360° and GYZ NDB course 051° to JZZY INT, thence. . .

. . . continue climb-in-hold (hold northwest, right turn, 140° inbound) to 9000 before proceeding on course.

NOTE: **Rwy 8**, multiple trees 512' from departure end of runway, 584' left of centerline, 100' AGL/4859' MSL.

Rwy 26, multiple trees, buildings, poles/lights, siren, roads w/ vehicles beginning 2' from departure end of runway, on centerline, to 488' left of centerline, 100' AGL/4899' MSL. Multiple trees, buildings, poles/lights, roads w/ vehicles beginning 2' from departure end of runway, on centerline to 499' right of centerline, 100' AGL/4859' MSL.

WHIDBEY ISLAND NAS (AULT FIELD) (NUW)

OAK HARBOR, WA. 07186

Diverse departures not authorized.

MILITARY DEPARTURE PROCEDURE: **Rwy 7**:

Minimum climb of 430'/NM until 600. Climbing left turn to 2000, intercept NUW R-067, expect radar vectors to join assigned route. **Rwy 14**: Climbing left turn to 2000, intercept NUW R-128, expect radar vectors to join assigned route. **Rwy 25**: Climb to 2000 via heading 249°, expect radar vectors to join assigned route. **Rwy 32**: Climb to 2000 via heading 317°, expect radar vectors to join assigned route. **ALL RWYS**: If vectors are not received by 10 DME of NUW TACAN, climb to 3000, intercept the NUW 11 DME ARC to join assigned route. CIVIL DEPARTURE PROCEDURE: **Rwy 7**: Minimum climb of 270'/NM until 700. Climbing left turn to 2000 via heading 067°, expect radar vectors to join assigned route. **Rwy 14**: Climbing left turn to 2000, via heading 128°, expect radar vectors to join assigned route. **Rwy 25**: Use published DP or climb to 2000 via heading 249°, expect radar vectors to join assigned route. **Rwy 32**: Climb to 2000 via heading 317°, expect radar vectors to join assigned route. **ALL RWYS**: If vectors are not received by 10 DME of NUW TACAN, climb to 3000, proceed direct CVV VOR/DME to join assigned route. TAKEOFF OBSTACLES: **Rwy 7**: Terrain, 7813' from DER, 2469' left of centerline, 276' MSL. Trees, 4274' from DER, 5472' left of centerline, 472' MSL. Trees, 5239' from DER, 6257' left of centerline, 495' MSL. Trees, 8561' from DER, 3685' left of centerline, 426' MSL. Trees, 12,561' from DER, 4814' right of centerline, 462' MSL. Terrain, 11,843' from DER, 7129' left of centerline, 502' MSL. Trees, 15,361' from DER, 4015' right of centerline, 521' MSL.

WORLAND, WY

WORLAND MUNI

TAKE-OFF MINIMUMS: **Rwys 4, 10, 22, 28**, NA.

Rwy 16, 300-2 or std. with a min. climb of 230' per NM to 4600.

DEPARTURE PROCEDURE: **All aircraft** climb to 5000, then direct RLY VOR/DME. Aircraft departing RLY R-061 CWR-349 climb on course. All others continue climb in RLY VOR/DME holding pattern (N, right turns, 159° inbound) to cross RLY VOR/DME at or above 7000.

YAKIMA, WA

YAKIMA AIR TERMINAL/MCALLISTER FIELD

TAKE-OFF MINIMUMS: **Rwy 4**, NA. **Rwy 9**, 800-4 or std. with a min. climb of 300' per NM to 5000. **Rwys 22, 27**, 2500-3 or std. with a min. climb of 300' per NM to 5200.

DEPARTURE PROCEDURE: **Rwy 4**, NA. **Rwys 9, 22, 27**, Use ZILLA DEPARTURE PROCEDURE.

VOR/DME CPN 111.6 Chan 53	APP CRS 307°	Rwy Idg TDZE Apt Elev	N/A N/A 5030
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VOR/DME or GPS-A

ANACONDA/ BOWMAN FIELD (3U3)

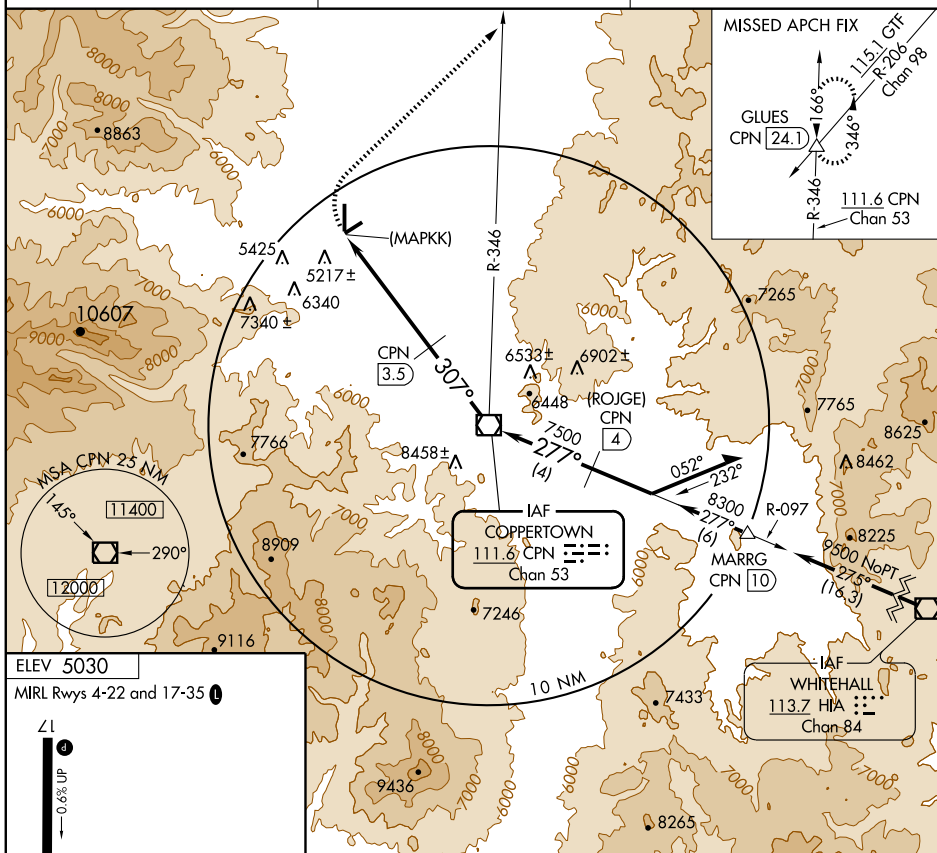
T	Use Butte (BTM) altimeter setting; when not received,
A NA	procedure NA.

MISSED APPROACH: Climbing right turn to 9200 via heading 030° to intercept CPN R-346 to GLUES and hold.

AWOS-A
122.8 L

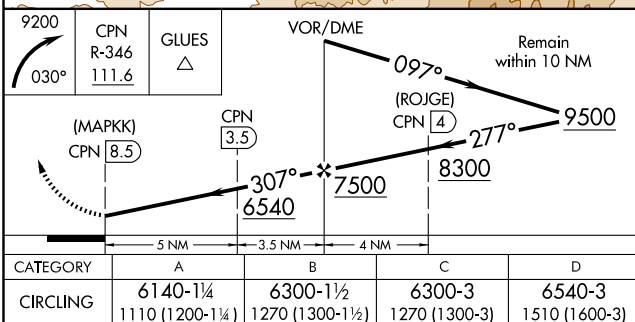
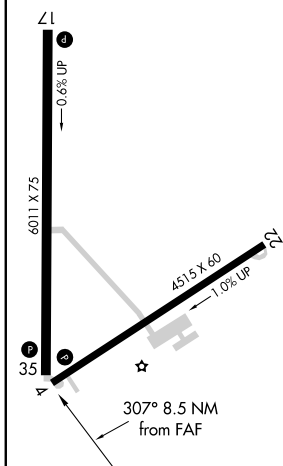
SALT LAKE CENTER
132.4 338.3

UNICOM
122.8 (CTAF) **L**



ELEV 5030

MIRL Rwy's 4-22 and 17-35



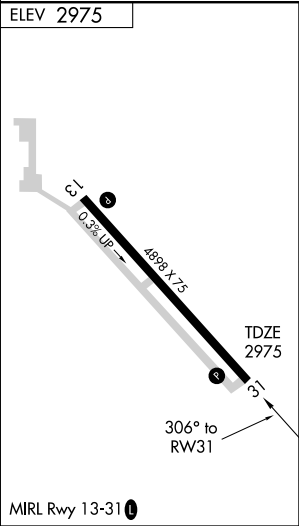
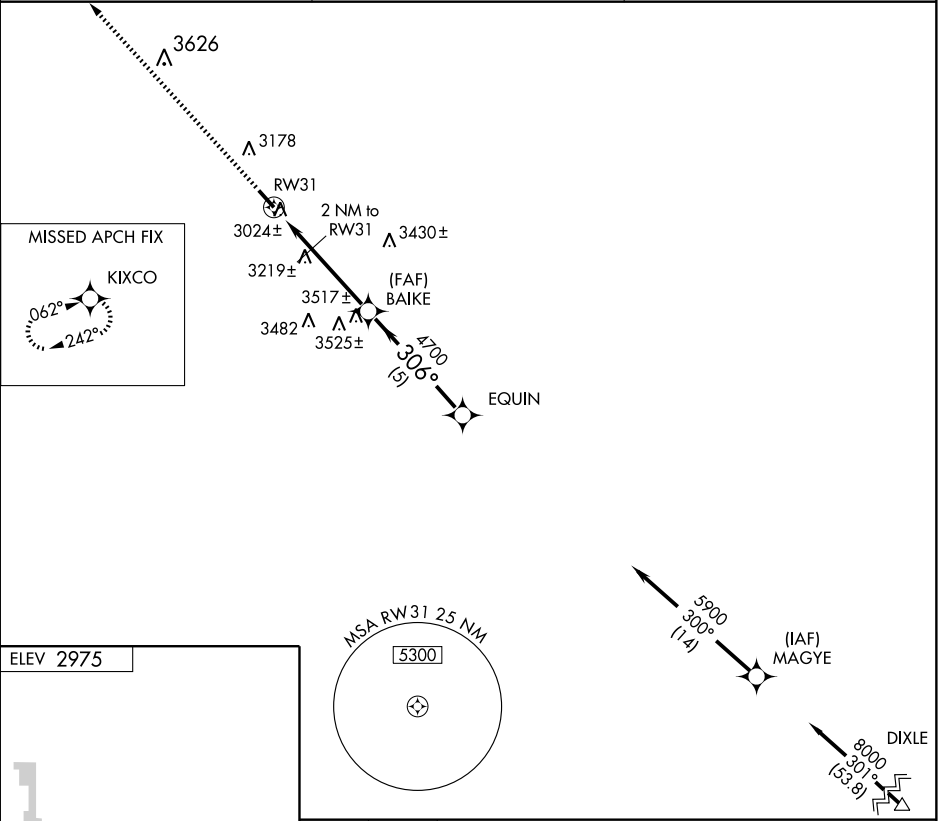
GPS RWY 31
BAKER MUNI (BHK)

APP CRS	Rwy Idg	4898
306°	TDZE	2975
	Apt Elev	2975


NA

MISSED APPROACH: Climb to 6000 direct KIXCO WP and hold.

ASOS 135.475	SALT LAKE CENTER 126.85 305.2	CTAF 122.9
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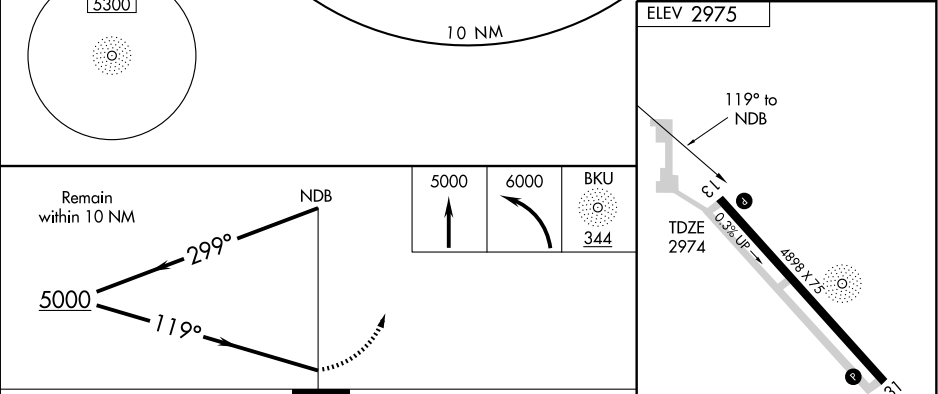
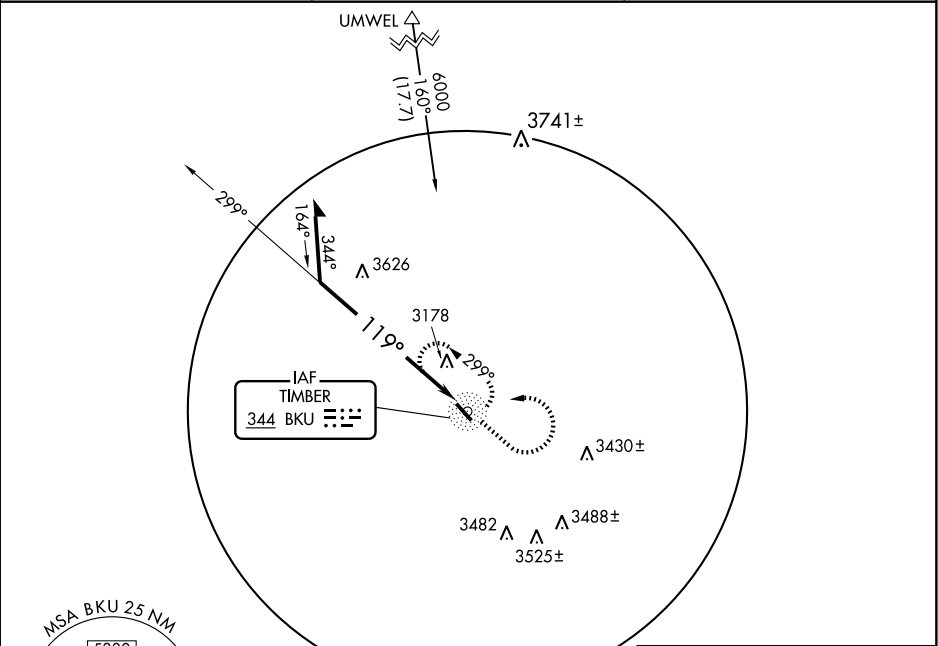
6000 KIXCO		EQUIN			
2 NM to RW31		BAIKE			
3640		4700			
2 NM		3 NM		5 NM	
CATEGORY	A	B	C	D	
S-31	3500-1	525 (600-1)	3500-1½ 525 (600-1½)	3500-1¾ 525 (600-1¾)	
CIRCLING	3560-1	585 (600-1)	3560-1½ 585 (600-1½)	3560-2 585 (600-2)	

NDB BKU 344	APP CRS 119°	Rwy Idg TDZE Apt Elev	4898 2974 2975
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NDB RWY 13
BAKER MUNI (BHK)

 	MISSED APPROACH: Climb to 5000, then climbing left turn to 6000 direct BKU NDB and hold.
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ASOS 135.475	SALT LAKE CENTER 126.85 305.2	CTAF 122.9
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CATEGORY	A	B	C	D
S-13	3980-1 ¼ 1006 (1100-1 ¼)	3980-1 ½ 1006 (1100-1 ½)	3980-3	1006 (1100-3)
CIRCLING	3980-1 ¼ 1005 (1100-1 ¼)	3980-1 ½ 1005 (1100-1 ½)	3980-3	1005 (1100-3)

MIRL Rwy 13-31

NDB BKU
344

APP CRS
313°

Rwy Idg	4898
TDZE	2975
Apt Elev	2975

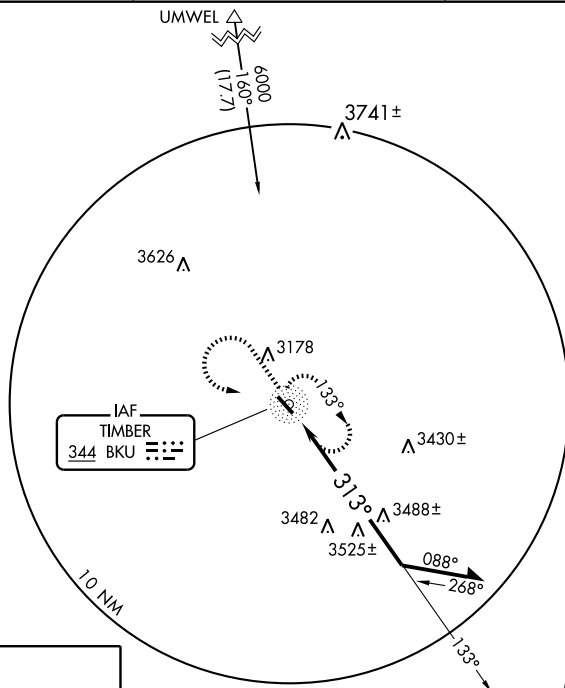
NDB RWY 31
BAKER MUNI (BHK)



MISSED APPROACH: Climb to 5000, then climbing left turn to 6000 direct BKU NDB and hold.

ASOS
135,475

SALT LAKE CENTER
126.85 305.2

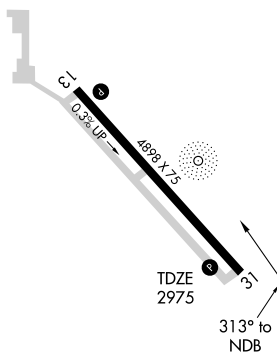
CTAF
122.9 L

MSA BKU 25 NM

5300

NW-1. 08 APR 2010 to 06 MAY 2010

ELEV 2975



500C

6000

BKU

NDB

Remain
within 10 NM

- 120 -

5000

CATEGORY

A

B

C

D

621

0000 11/

00515000

3880-2 3/4

3880-3

S-31

3880-1 ¼

905 (1000-1¼)

905 (1000-2 $\frac{3}{4}$)

905 (1000-3)

CIRCUINO

0000 11/

00518000 11/11

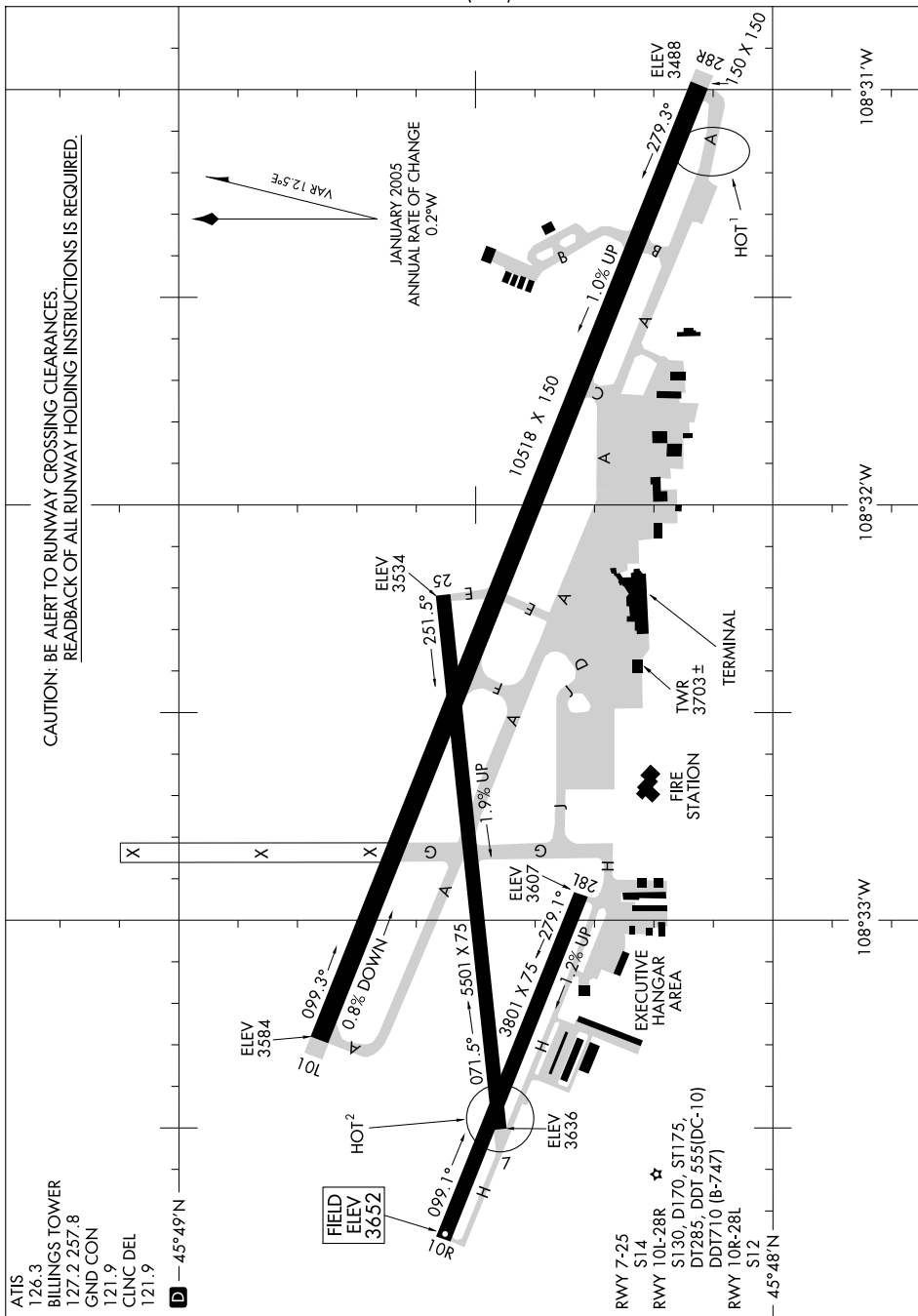
3880-2 3/4

3880-3

MIRL Rwy 13-31 **L**

AIRPORT DIAGRAM

AL-48 (FAA)

BILLINGS LOGAN INTL (BIL)
BILLINGS, MONTANA

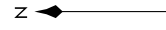
NW-1, 08 APR 2010 to 06 MAY 2010

BILLINGS TWO DEPARTURE

SL-48 (FAA)

BILLINGS LOGAN INTL (BIL)
BILLINGS, MONTANA

ATS 126.3
CLNC DEL
121.9
GND CON
121.9
BILLINGS DEP CON
120.5



NOTE: Takeoff on Runways 7, 10R, and 10L requires a minimum climb of 260 feet per NM to 4500 feet.

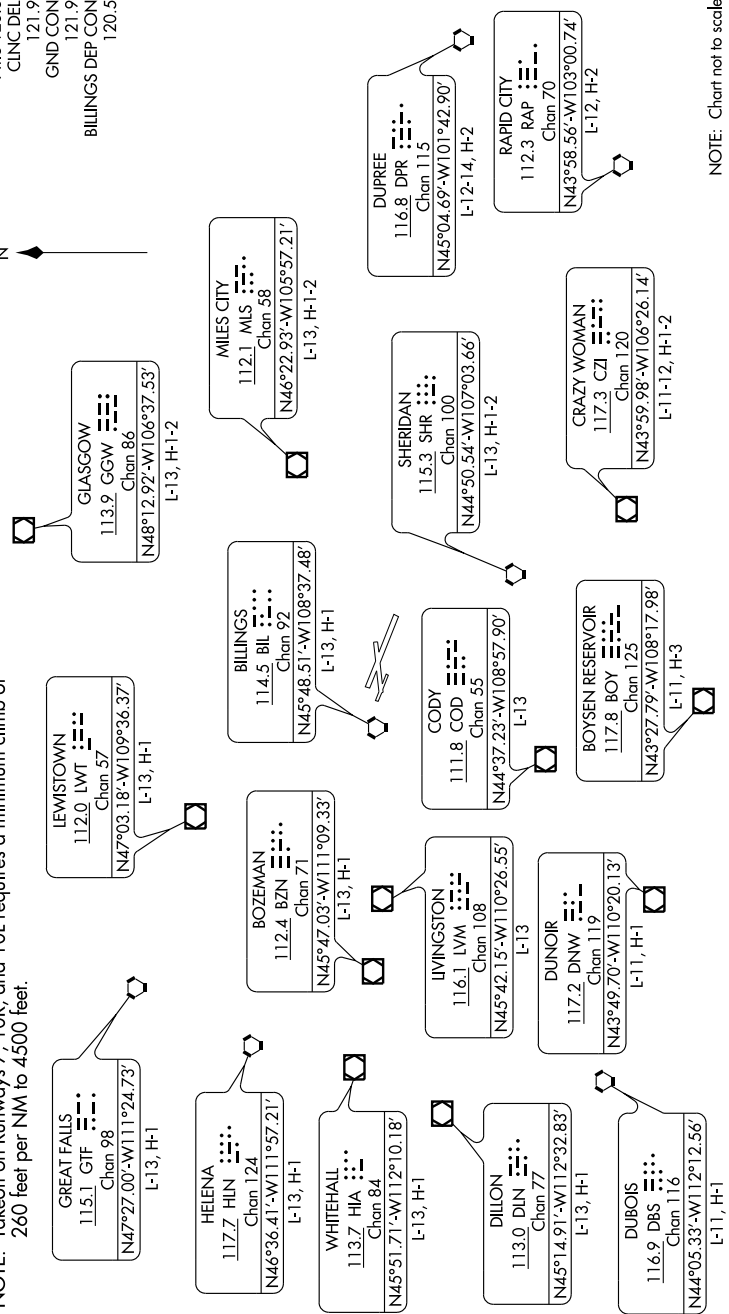
NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

ALL RUNWAYS: Fly assigned heading for vectors to assigned fix/route. Maintain 12,000 feet or assigned lower altitude. Expect clearance to filed altitude/flight level within 40 NM of BIL VORTAC.

LOST COMMUNICATIONS: If no transmissions are received for 1 minute after departure, fly last assigned heading until reaching 7000 feet. Proceed direct BIL VORTAC, then via last routing cleared and climb to filed altitude.

NW-1, 08 APR 2010 to 06 MAY 2010



LOCALIZER I-BIL

110.3

APCH CR
098°

Rwy Idg	10,518
TDZE	3584
Arpt Elev	3652

JAL-48 [USAF]

BILINGS LOGAN INTL (KBIL)



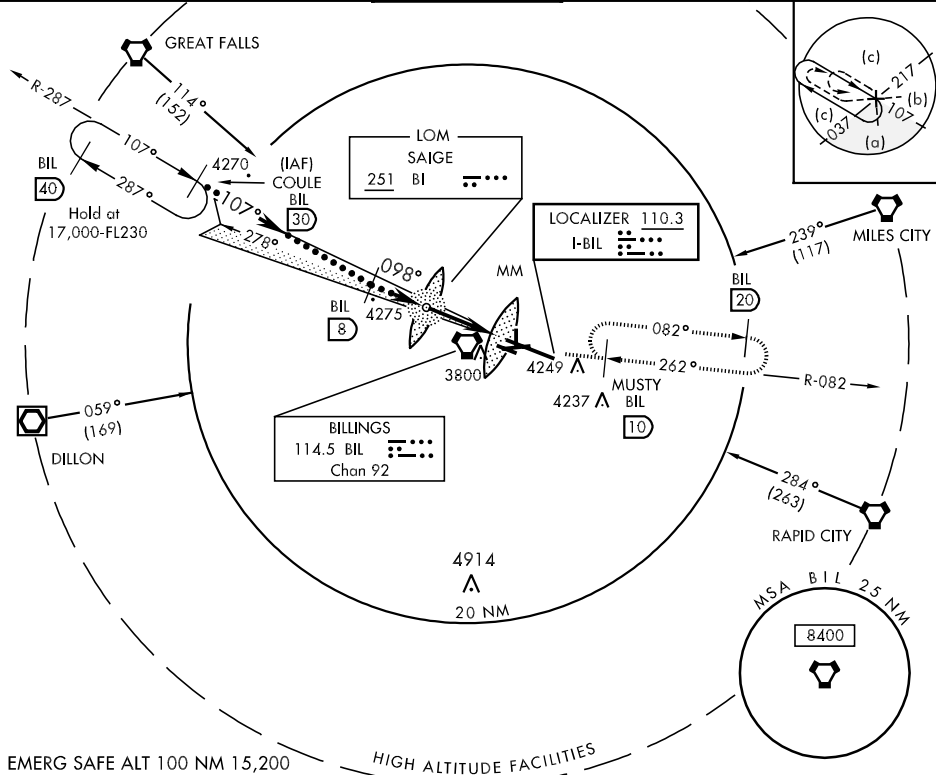
MISSED APPROACH: Climb to 5700 via BIL R-082 to MUSTY/10 DME and hold.

ATIS
126.3

BILLINGS APP CON
120.5 284.6

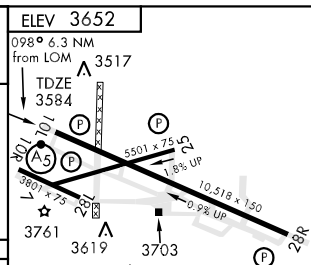
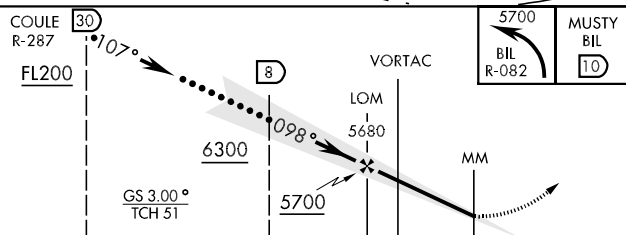
BILLINGS TOWER
127.2 257.8

GND CON
121.9

CLNC DEL
121.9

EMERG SAFE ALT 100 NM 15,200

HIGH ALTITUDE FACILITIES



CATEGORY	C	D	E
S-ILS 10L	3784/24	200 (200-½)	
S-LOC 10L	4100/50 516 (500-1)	4100/60 516 (500-1¼)	
CIRCLING	4180-1½ 528 (600-1½)	4220-2 568 (600-2)	4580-3 928 (1000-3)

REIL Rwy 25 and 28R					
HIRL Rwy 10L-28R					
MIRL Rwy 7-25 and 10R-28L					
FAF to MAP 6.3 NM					
Knots	120	140	160	180	200
Min:Sec	3:09	2:42	2:22	2:06	1:53

BILLINGS, MONTANA

45°48'N-108°32'W

BILLINGS LOGAN INTL (KBIL)

Amdt 2 08213

U.S. BAA 101

NW-1, 08 APR 2010 to 06 MAY 2010

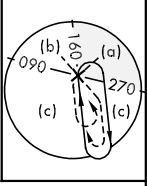
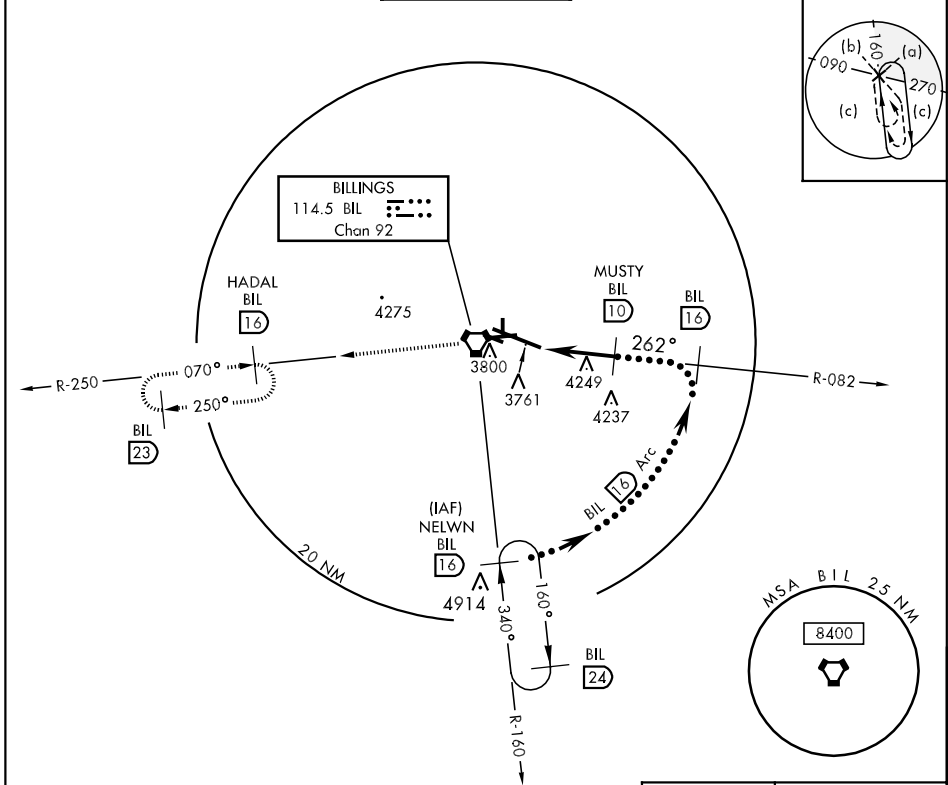
BILLINGS 114.5 Chan 92	APCH CRS 262°	Rwy Idg 10,518 TDZE 3517 Arpt Elev 3652
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JAL-48 [USAF]

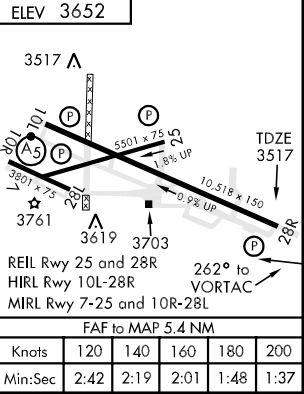
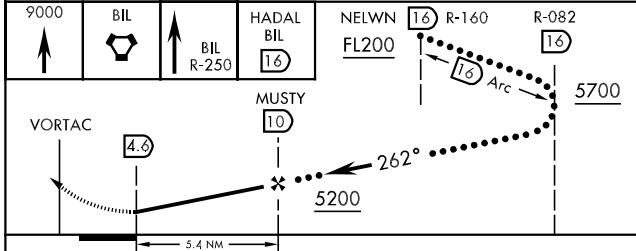
BILLINGS LOGAN INTL (KBIL)

▼ MISSED APPROACH: Climb to 9000 direct BIL VORTAC then via R-250 to HADAL/16 DME and hold.

ATIS 126.3	BILLINGS APP CON 120.5 284.6	BILLINGS TOWER 127.2 257.8	GND CON 121.9	CLNC DEL 121.9
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EMERG SAFE ALT 100 NM 15,200



CATEGORY	C	D	E
S-28R	3940-1¼ 423 (300-1¼)		3940-1½ 423 (300-1½)
CIRCLING	4180-1½ 528 (600-1½)	4220-2 568 (600-2)	4580-3 928 (1000-3)

NW-1, 08 APR 2010 to 06 MAY 2010

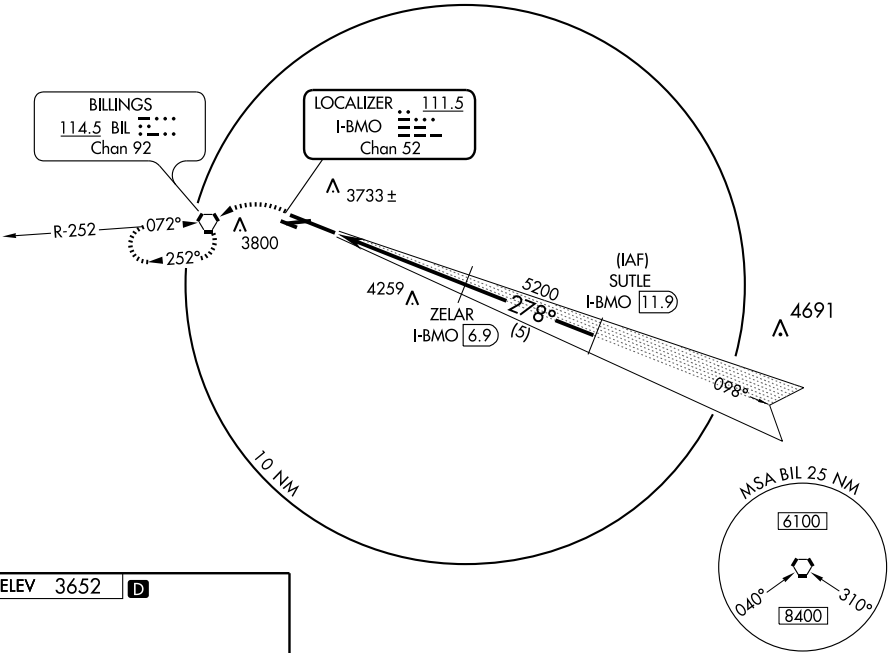
LOC/DME I-BMO 111.5 Chan 52	APP CRS 278°	Rwy Idg 10518 TDZE 3517 Apt Elev 3652
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ILS or LOC/DME RWY 28R
BILLINGS LOGAN INTL (BIL)

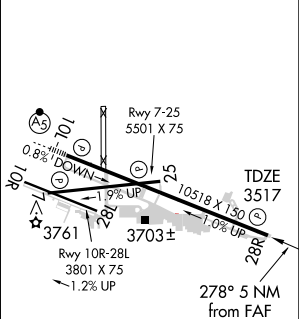
MISSED APPROACH: Climb to 4300 then climbing left turn to 6000 direct BIL VORTAC and hold.	
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ATIS 126.3	BILLINGS APP CON 120.5 284.6	BILLINGS TOWER 127.2 257.8	GND CON 121.9	CLNC DEL 121.9
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RADAR REQUIRED



ELEV 3652	D
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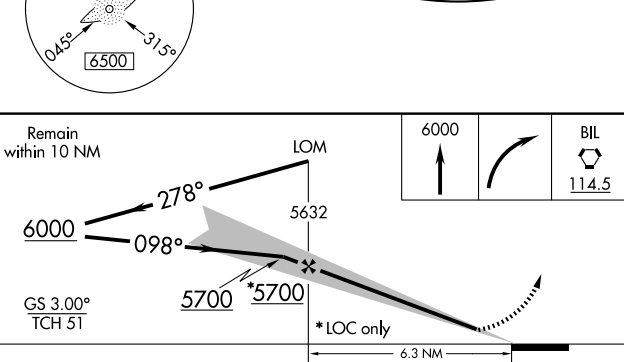
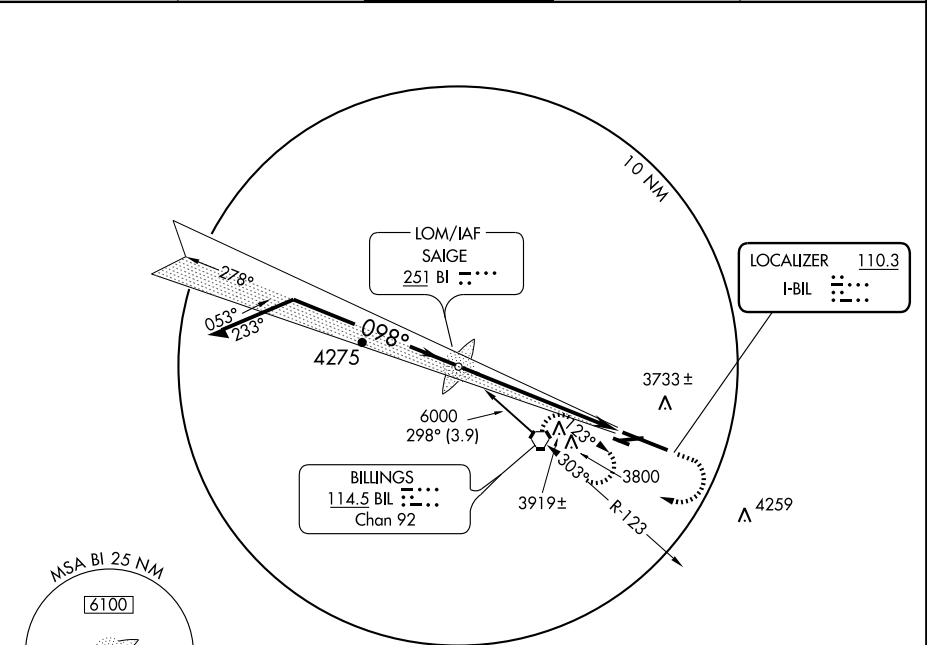
4300 ↑		6000 ↷		BIL 114.5 114.5		VGSI and ILS glidepath not coincident.		SUTLE I-BMO 11.9		
I-BMO 1.9		5160		ZELAR I-BMO 6.9		278°		6000		
5 NM		5 NM		GS 3.00° TCH 56						
CATEGORY	A		B		C		D			
S-ILS 28R	3767-1 250 (200-1)									
S-LOC 28R	4000-1		483 (400-1)		4000-1¼ 483 (400-1¼)		4000-1½ 483 (400-1½)			
CIRCLING	4160-1 508 (600-1)		4180-1 528 (600-1)		4180-1½ 528 (600-1½)		4220-2 568 (600-2)			

REIL Rwy 25 and 28R
HIRL Rwy 10L-28R
MIRL Rwy 7-25 and 10R-28L

LOC	I-BIL	APP CRS	Rwy Idg
110.3		098°	10518
			TDZE
			3584
			Apt Elev
			3652

ILS or LOC RWY 10L
BILLINGS LOGAN INTL (BIL)

# RVR 1800 authorized with the use of FD or AP or HUD to DA.		MALSR 	MISSED APPROACH: Climb to 6000, then right turn direct BIL VORTAC and hold.	
ATIS 126.3	BILLINGS APP CON 120.5 284.6	BILLINGS TOWER 127.2 257.8	GND CON 121.9	CLNC DEL 121.9



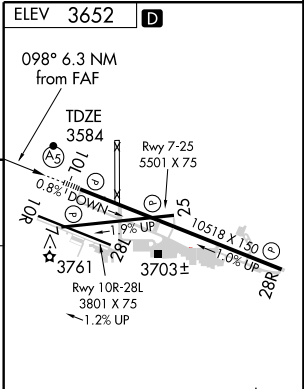
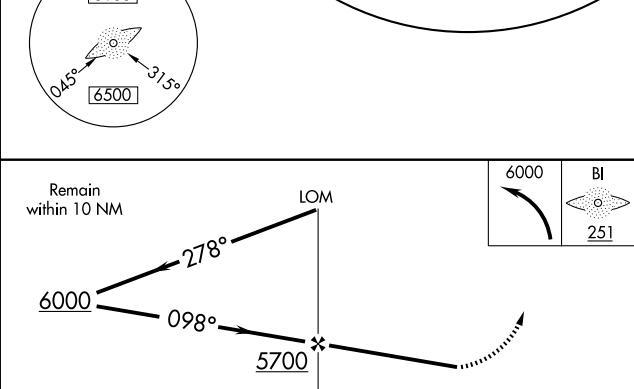
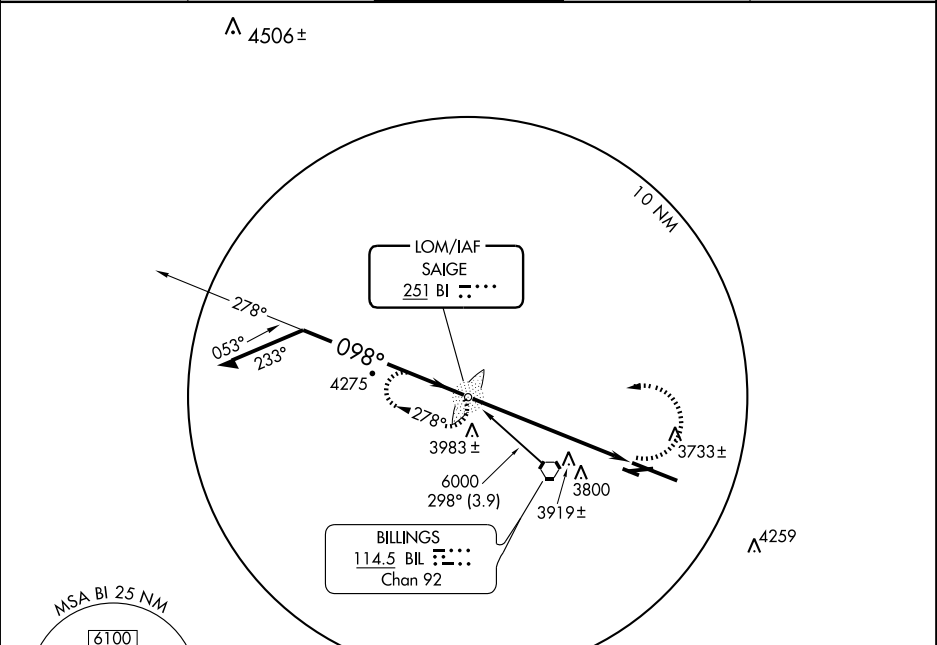
ELEV 3652	D
098° 6.3 NM from FAF	
TDZE 3584	Rwy 7-25 5501 X 75
10L	10R 28L 3801 X 75
10R	28R
3761	3703±
1.9% UP	1.0% UP
1.2% UP	
REIL Rwy 25 and 28R	
HIRL Rwy 10L-28R	
MIRL Rwy 7-25 and 10R-28L	
FAF to MAP 6.3 NM	
Knots	60 90 120 150 180
Min:Sec	6:18 4:12 3:09 2:31 2:06

LOM BI 251	APP CRS 098°	Rwy Idg TDZE Apt Elev	10518 3584 3652
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NDB RWY 10L
BILLINGS LOGAN INTL (BIL)

	MALSR 	MISSED APPROACH: Climbing left turn to 6000 direct Saige LOM and hold.
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ATIS 126.3	BILLINGS APP CON 120.5 284.6	BILLINGS TOWER 127.2 257.8	GND CON 121.9	CLNC DEL 121.9
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CATEGORY	A	B	C	D
S-10L	4300/40 716 (700-¾)	4300-1½ 716 (700-1½)	4300-2 716 (700-2)	4300-2 716 (700-2)
CIRCLING	4300-1 648 (700-1)	4300-2 648 (700-2)	4300-2 648 (700-2)	4300-2 648 (700-2¼)

REIL Rwy 25 and 28R HIRL Rwy 10L-28R MIRL Rwy 7-25 and 10R-28L					
FAF to MAP 6.3 NM					
Knots	60	90	120	150	180
Min:Sec	6:18	4:12	3:09	2:31	2:06

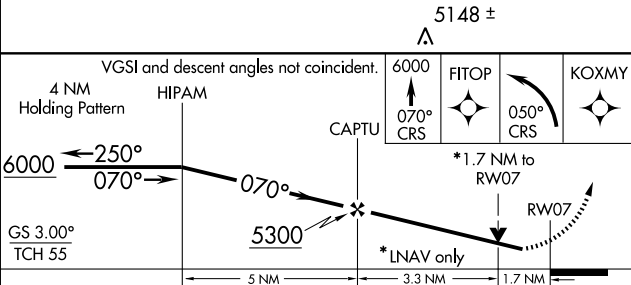
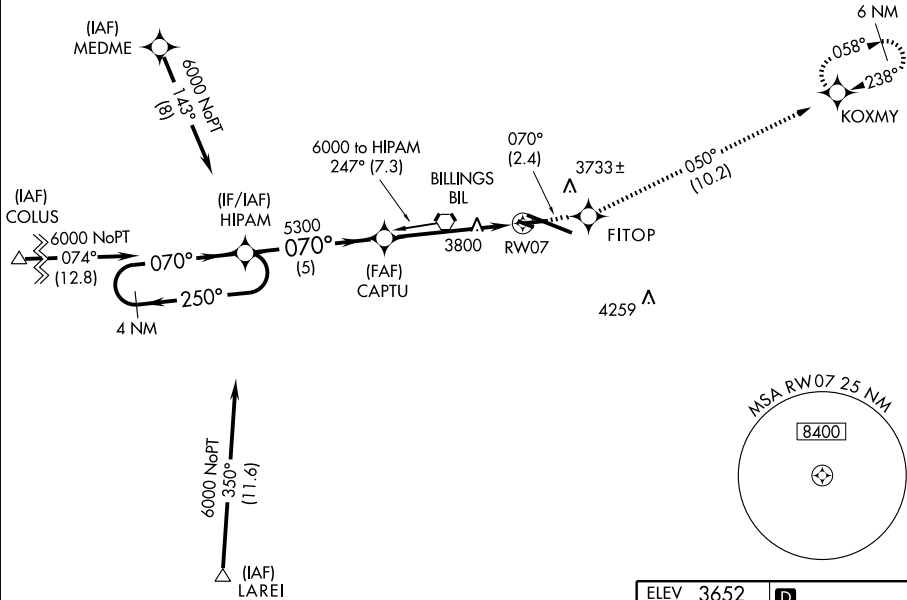
RNAV (GPS) RWY 7
BILLINGS LOGAN INTL (BIL)

APP CRS	Rwy Idg	5501
070°	TDZE	3636
	Apt Elev	3652

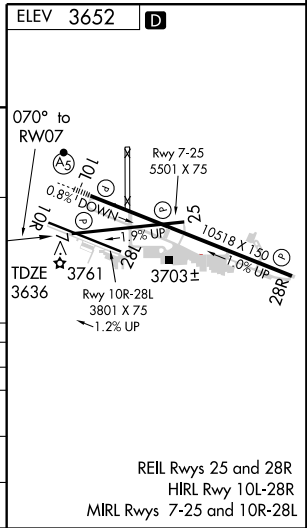
T For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -22°C (-7°F) or above 41°C (105°F).
DME/DME RNP- 0.3 NA.

MISSED APPROACH: Climb to 6000 via 070° course to FITOP, then left turn via 050° course to KOXMY and hold.

ATIS 126.3	BILLINGS APP CON 120.5 284.6	BILLINGS TOWER 127.2 257.8	GND CON 121.9	CLNC DEL 121.9
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CATEGORY	A	B	C	D
GLS PA DA				
LNAV/VNAV DA		4209-2	573 (600-2)	
LNAV MDA	4220-1 584 (600-1)	4220-1 1/2 584 (600-1 1/2)	4220-1 3/4 584 (600-1 3/4)	
CIRCLING	4220-1 568 (600-1)	4220-1 1/2 568 (600-1 1/2)	4220-2 568 (600-2)	



WAAS CH 50122 W10A	APP CRS 098°	Rwy Idg 10518 TDZE 3584 Apt Elev 3652
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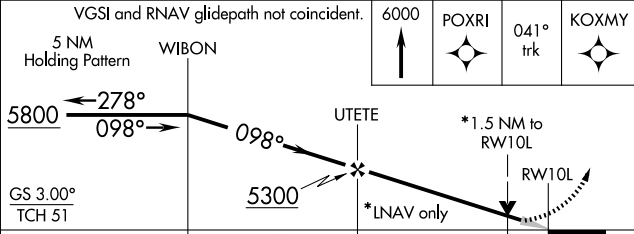
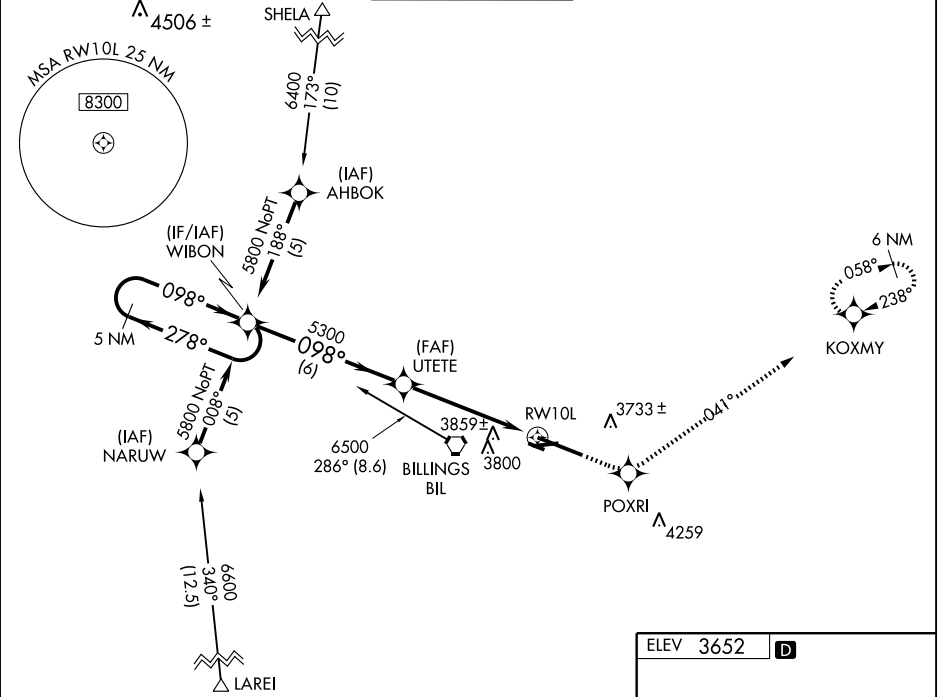
RNAV (GPS) RWY 10L
BILLINGS LOGAN INTL (BIL)

Baro-VNAV NA below -22°C (-7°F).
DME/DME RNP-0.3 NA.
Inoperative table does not apply to LNAV/VNAV.
For inoperative MALSR increase LPV visibility to RVR 6000 all Cats.

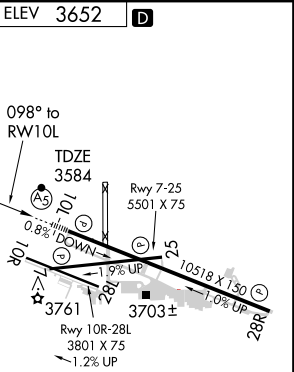


MISSED APPROACH: Climb to 6000 direct POXRI and via 041° track to KOXMY and hold.

ATIS 126.3	BILLINGS APP CON 120.5 284.6	BILLINGS TOWER 127.2 257.8	GND CON 121.9	CLNC DEL 121.9
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CATEGORY	A	B	C	D
LPV DA	3950/40 366 (300-¾)			
LNAV/VNAV DA	4200-2¼ 616 (600-2¼)			
LNAV MDA	4120/24 536 (500-½)	4120/50 536 (500-1)	4120/60 536 (500-1¼)	
CIRCLING	4200-2¼ 548 (600-2¼)		4220-2¼ 568 (600-2¼)	



REIL Rwy 25 and 28R
HIRL Rwy 10L-28R
MIRL Rwy 7-25 and 10R-28L

APP CRS
250°

Rwy Idg	5501
TDZE	3586
Apt Elev	3652

RNAV (GPS) RWY 25

BILLINGS LOGAN INTL (BIL)



DME/DME RNP- 0.3 NA.

MISSED APPROACH: Climb to 5500 via 250° course to PESUE WP then right turn via 283° course to OXIVY and hold.

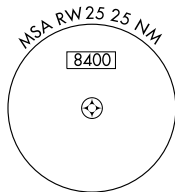
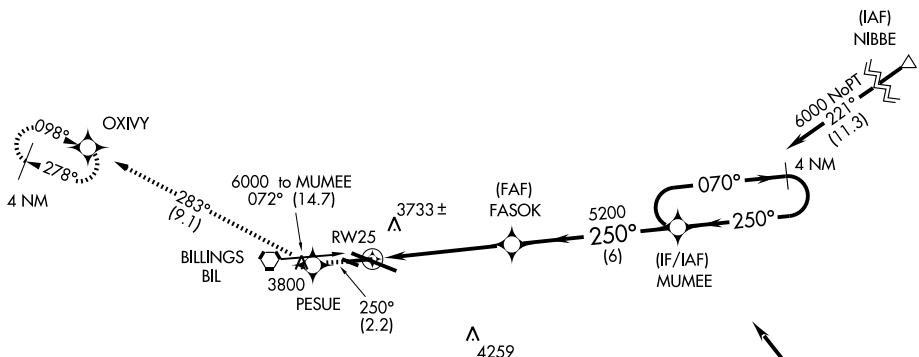
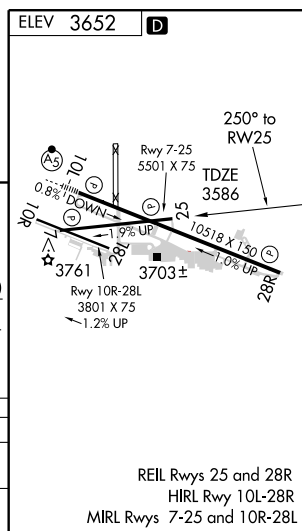
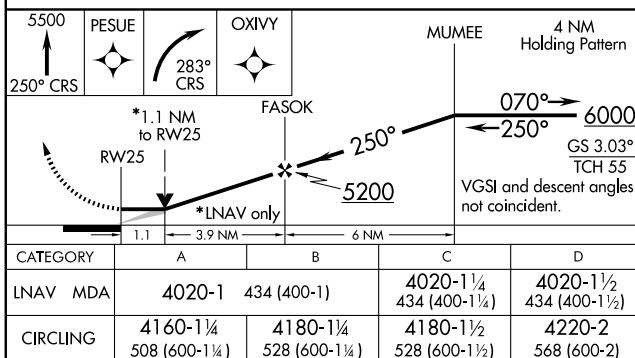
ATIS
126.3

BILLINGS APP CON
120.5 284.6

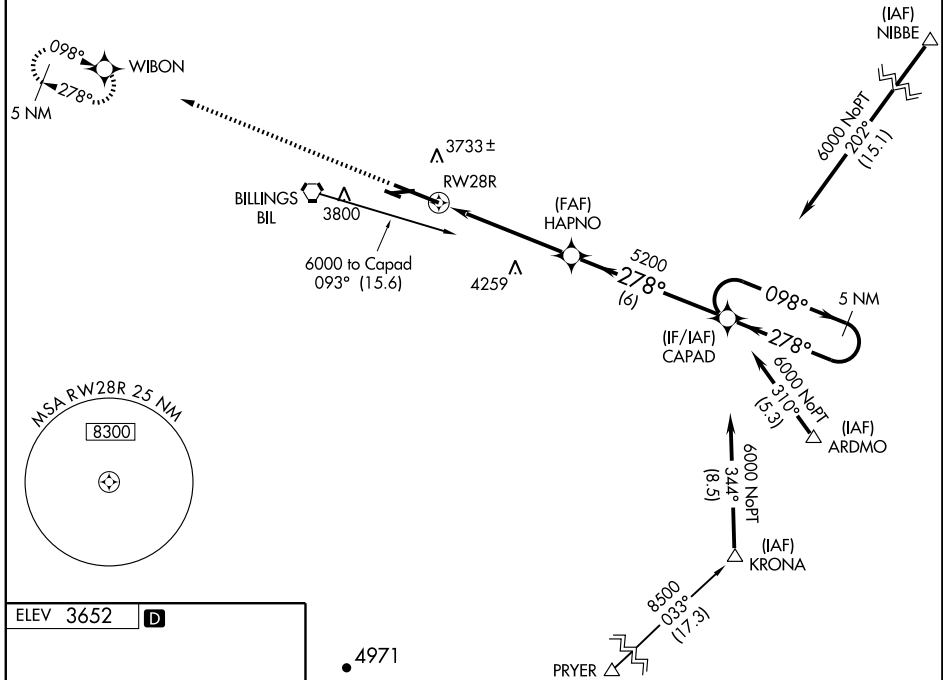
BILLINGS TOWER
127.2 257.8

GND CON
121.9

CLNC DEL
121.9

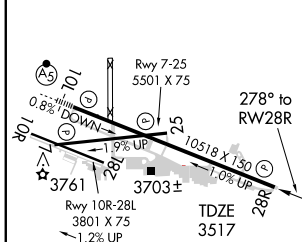
 $5148 \pm$ 

MISSED APPROACH: Climb to 5800 direct WIBON and hold.

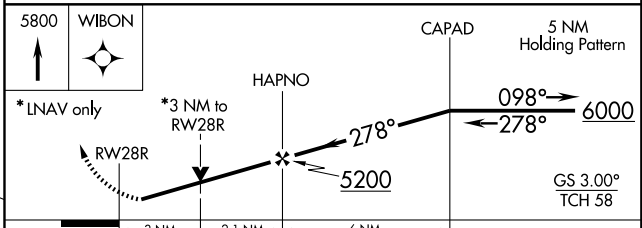
CLNC DEL
121.9

NW-1. 08 APR 2010 to 06 MAY 2010

D




REIL Rwy 25 and 28R
HIRL Rwy 10L-28R
MIRL Rwy 7-25 and 10R-28L



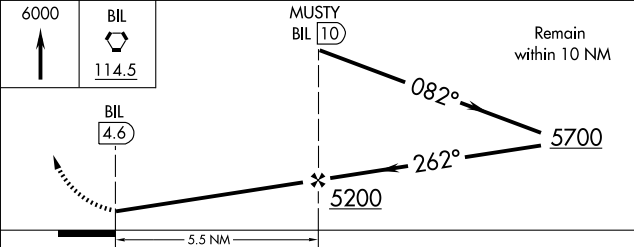
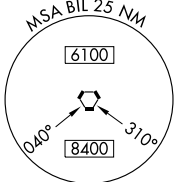
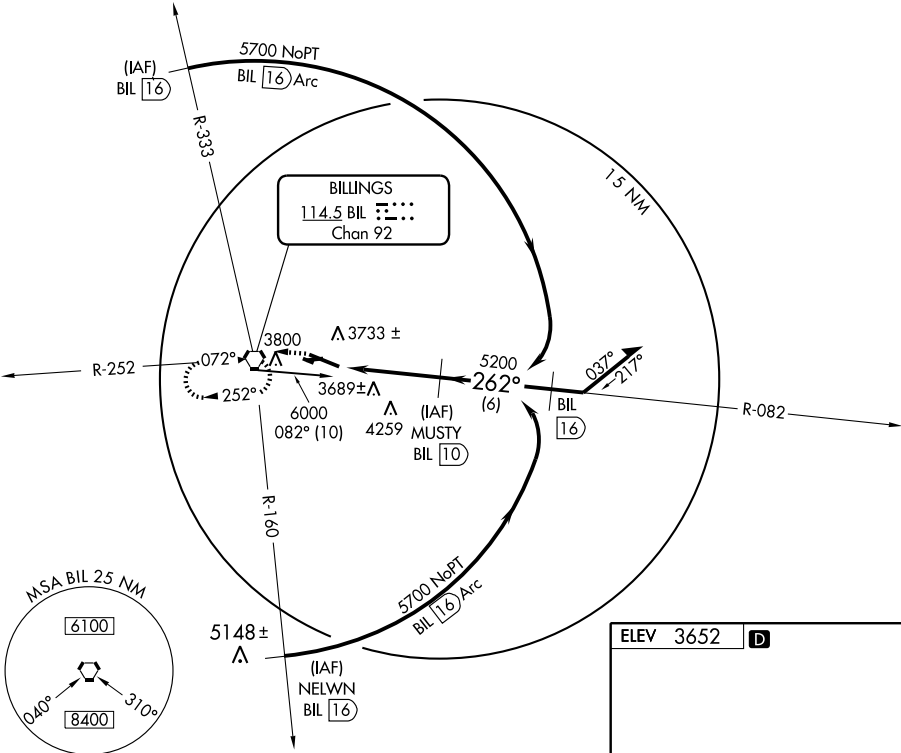
CATEGORY		3 NM A	2.1 NM B	6 NM C	D
LPV	DA	3770-1 253 (200-1)			
LNAV/ VNAV	DA	3840-1¼ 323 (200-1¼)			
LNAV	MDA	4500-1¼ 983 (900-1¼)	4500-1½ 983 (900-1½)	4500-3 983 (900-3)	
CIRCLING		4500-1¼ 848 (900-1¼)	4500-1½ 848 (900-1½)	4500-3 848 (900-3)	

VORTAC BIL 114.5 Chan 92	APP CRS 262°	Rwy Idg TDZE 10518 3517 Apt Elev 3652
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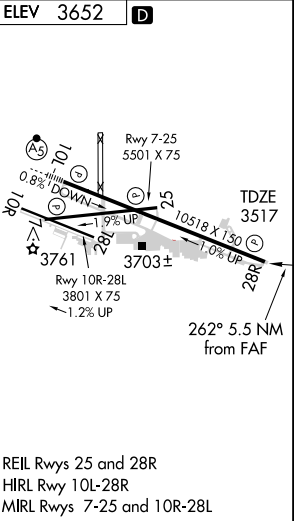
VOR/DME RWY 28R
BILLINGS LOGAN INTL (BIL)

	MISSED APPROACH: Climb to 6000 direct BIL VORTAC and hold.
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ATIS 126.3	BILLINGS APP CON 120.5 284.6	BILLINGS TOWER 127.2 257.8	GND CON 121.9	CLNC DEL 121.9
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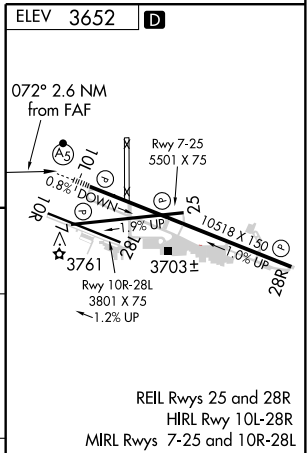
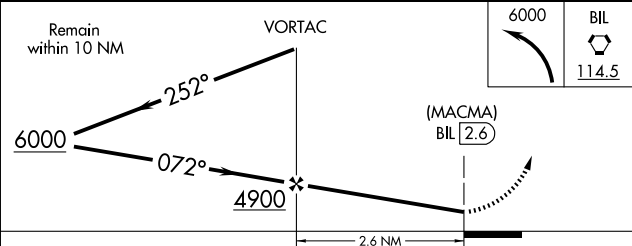
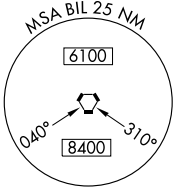
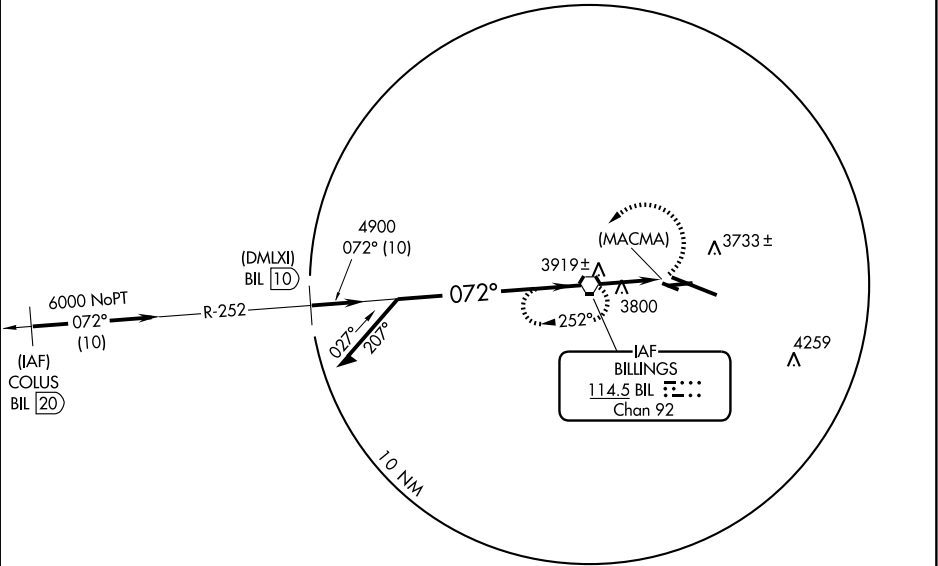
CATEGORY	A	B	C	D
S-28R	4040-1 523 (400-1)	4040-1½ 523 (400-1½)	4040-1¾ 523 (400-1¾)	4040-1¾ 523 (400-1¾)
CIRCLING	4160-1 508 (600-1)	4180-1 528 (600-1)	4180-1½ 528 (600-1½)	4220-2 568 (600-2)



VORTAC BIL	APP CRS	Rwy Idg	N/A
114.5	072°	TDZE	N/A
Chan 92		Apt Elev	3652

VOR or GPS-A
BILLINGS LOGAN INTL (BIL)

MISSED APPROACH: Climbing left turn to 6000 direct BIL VORTAC and hold.			
ATIS 126.3	BILLINGS APP CON 120.5 284.6	BILLINGS TOWER 127.2 257.8	GND CON 121.9
CLNC DEL 121.9			



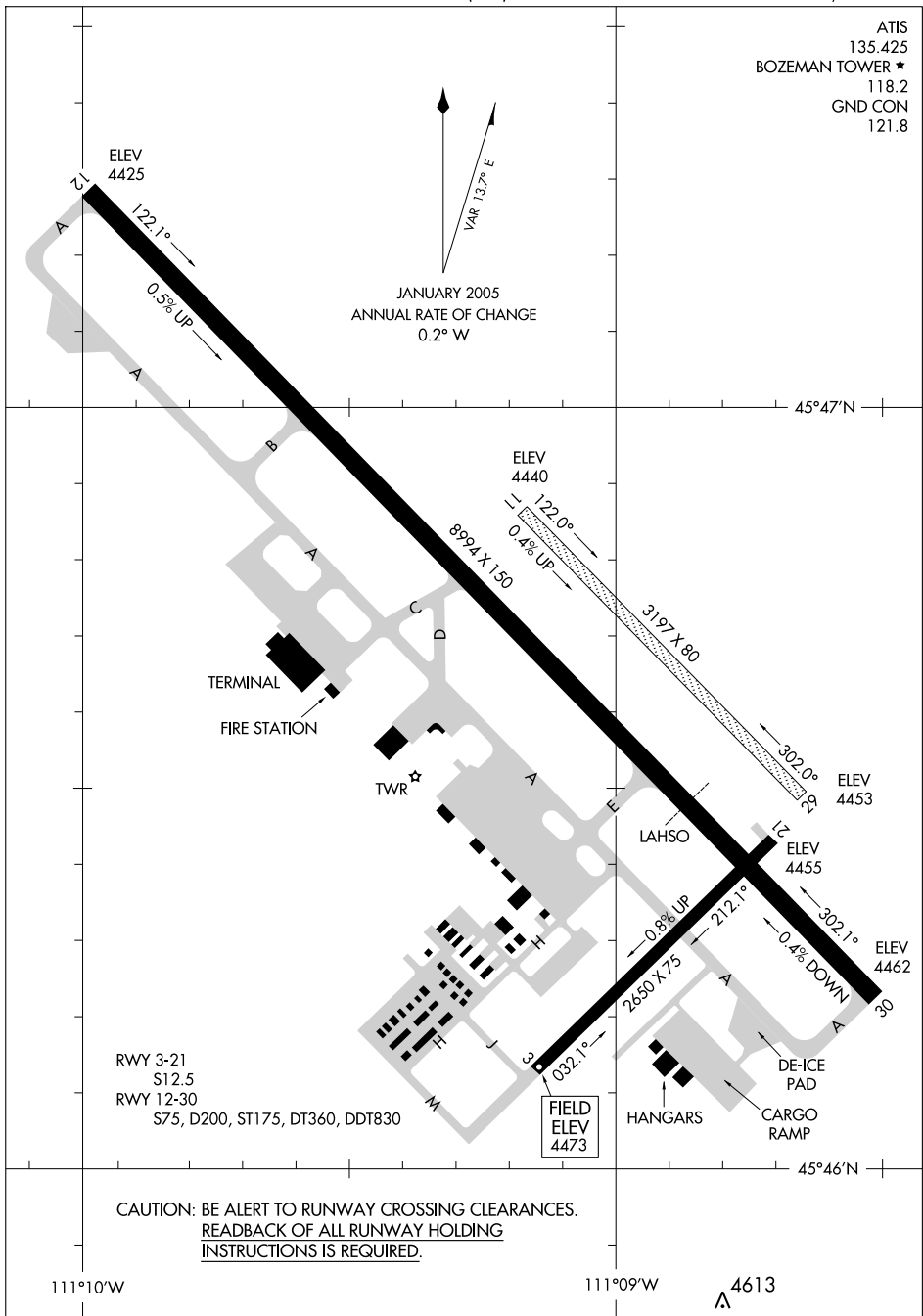
CATEGORY	A	B	C	D	FAF to MAP 2.6 NM					
CIRCLING	4180-1 528 (600-1)		4180-1½ 528 (600-1½)	4220-2 568 (600-2)	Knots	60	90	120	150	180
					Min:Sec	2:36	1:44	1:18	1:02	0:52

AIRPORT DIAGRAM

AL-59 (FAA)

BOZEMAN/GALLATIN FIELD (BZN)
BOZEMAN, MONTANA

ATIS
135.425
BOZEMAN TOWER ★
118.2
GND CON
121.8

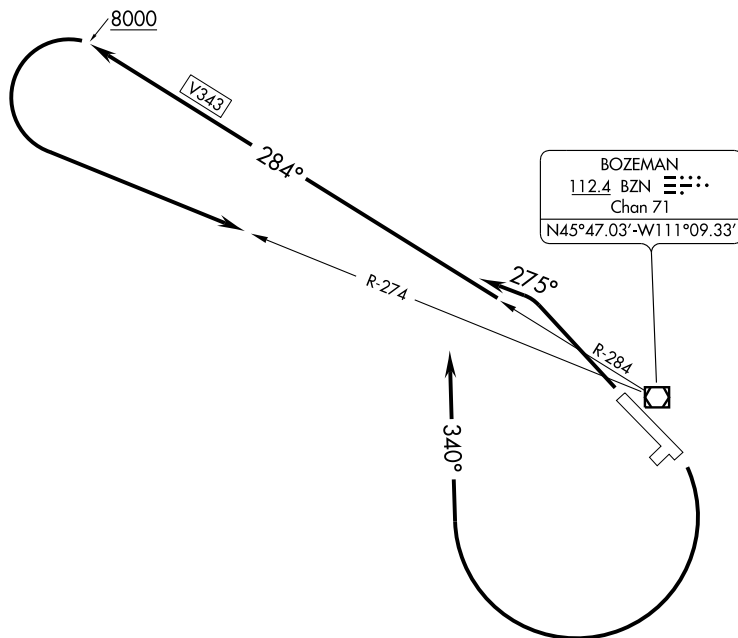


NW-1, 08 APR 2010 to 06 MAY 2010

BOZEMAN ONE DEPARTURE (OBSTACLE)

BOZEMAN/GALLATIN FIELD (BZN)
BOZEMAN, MONTANA

ATIS 135.425
GND CON
121.8
BOZEMAN TOWER ★
118.2 (CTAF)
SALT LAKE CITY CENTER
132.4 338.3



TAKE-OFF MINIMUMS

Rwy 3, 21: NA - ATC.

Rwy 12, 30: Standard

TAKE-OFF OBSTACLE NOTES

Rwy 30: Pole 636' from DER, 622' left of centerline, 62' AGL/4452' MSL.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 12: Climbing right turn heading 340° to intercept BZN R-284 outbound to 8000. Aircraft departing westbound via V343 climb on course, all others continue climbing left turn to intercept BZN R-274 to BZN VOR/DME, cross BZN VOR/DME at or above MCA or MEA for route of flight.

TAKE-OFF RUNWAY 30: Climbing left turn heading 275° to intercept BZN R-284 outbound to 8000. Aircraft departing westbound via V343 climb on course, all others continue climbing left turn to intercept BZN R-274 to BZN VOR/DME, cross BZN VOR/DME at or above MCA or MEA for route of flight.

LOC I-BZN
109.3

APP CRS
118°

Rwy Idg
TDZE
Apt Elev
8994
4439
4474

BOZEMAN/GALLATIN FIELD (BZN)

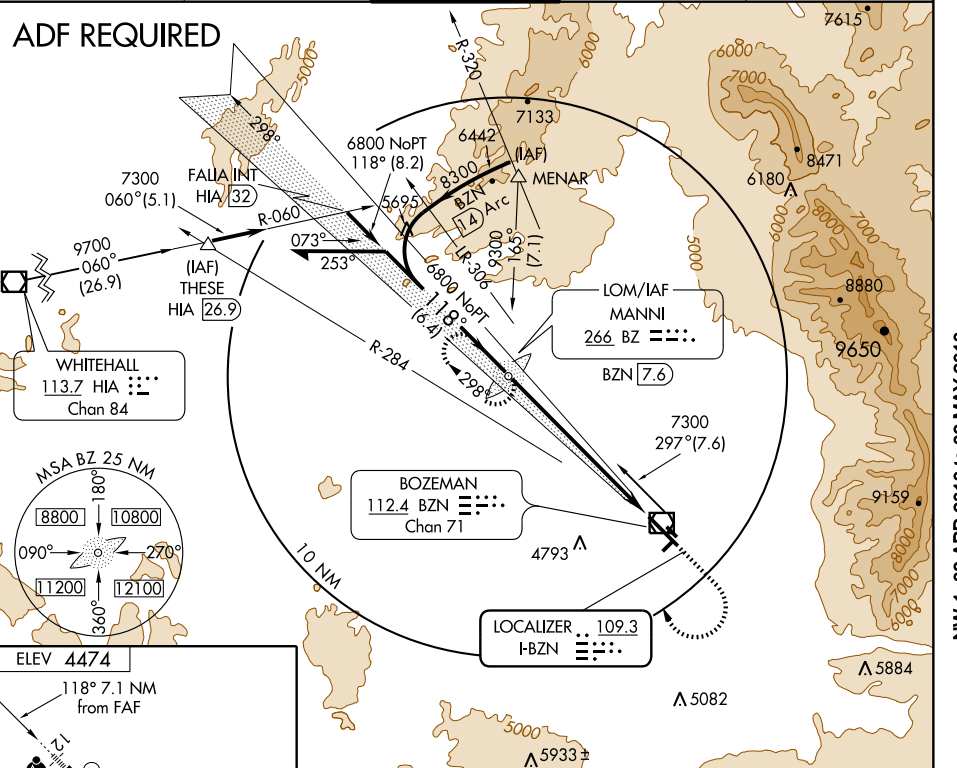
⚠

Increase S-LOC 12 Cat D visibility ¼ mile for inoperative MALSR.

MALSR

MISSED APPROACH: Climb to 5000, then climbing right turn to 8000 direct BZ LOM and hold.

ATIS 135.425	SALT LAKE CENTER 132.4 338.3	BOZEMAN TOWER★ 118.2 (CTAF) 0	GND CON 121.8	UNICOM 122.95
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ELEV **4474**

118° 7.1 NM from FAF

REIL Rwy 30 0
HIRL Rwy 12-30 0

FAF to MAP 7.1 NM

Knots	60	90	120	150	180
Min:Sec	7:06	4:44	3:33	2:50	2:22

Remain within 10 NM

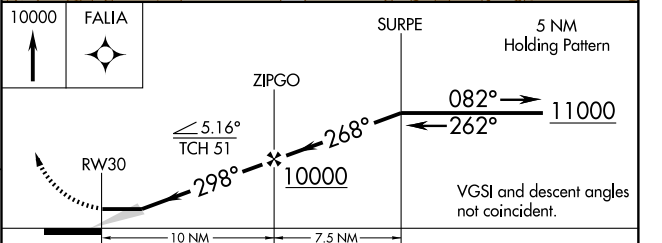
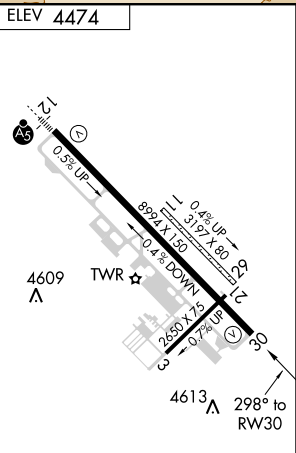
CATEGORY	A	B	C	D
S-ILS 12	4650-½ 211 (200-½)			
S-LOC 12	4760-½ 321 (300-½)			4760-¾ 321 (300-¾)
CIRCLING	4940-1 466 (500-1)		4940-1½ 466 (500-1½)	5040-2 566 (600-2)

NW-1. 08 APR 2010 to 06 MAY 2010

NA

MISSED APPROACH: Climb to 10000 direct FALIA WP and hold.

ATIS 135.425	SALT LAKE CENTER 132.4 338.3	BOZEMAN TOWER★ 118.2 (CTAF) 0	GND CON 121.8	UNICOM 122.95
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CATEGORY	A	B	C	D
CIRCLING	6380-1¼ 1906 (2000-1¼)	6380-1½ 1906 (2000-1½)	6380-3	1906 (2000-3)

NW-1. 08 APR 2010 to 06 MAY 2010

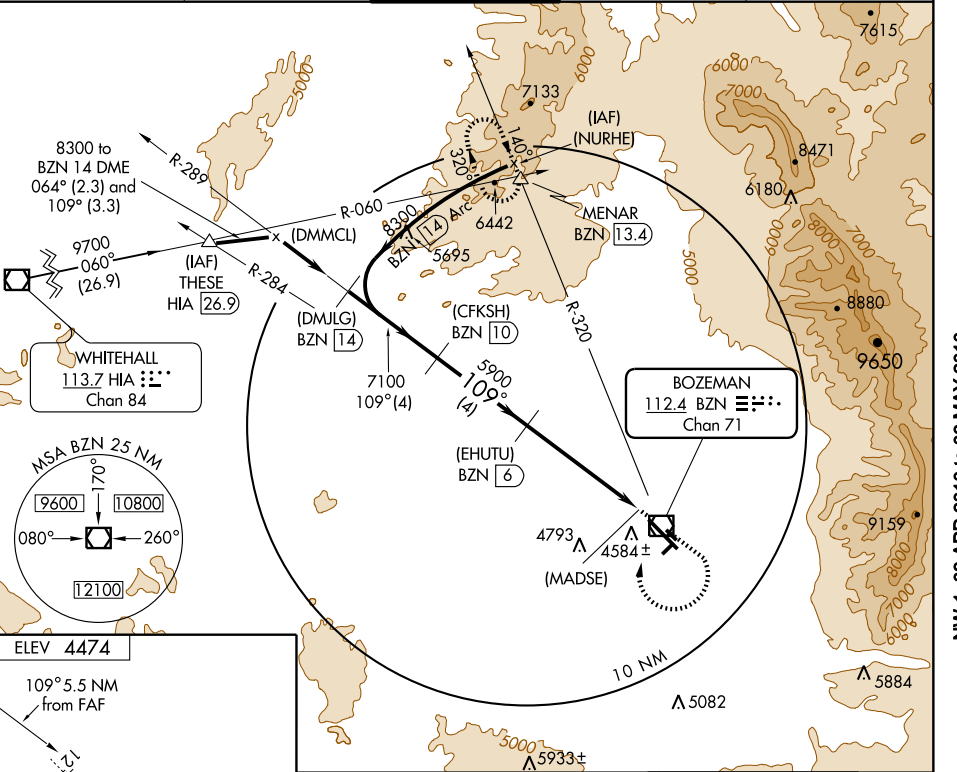
VOR/DME BZN	APP CRS	Rwy Idg	8994
112.4	109°	TDZE	4439
Chan 71		Apt Elev	4474

▼

MALSR

MISSED APPROACH: Climb to 5300, then a climbing right turn to 9200 via heading 350° to intercept BZN R-320, then via BZN R-320 to MENAR Int and hold.

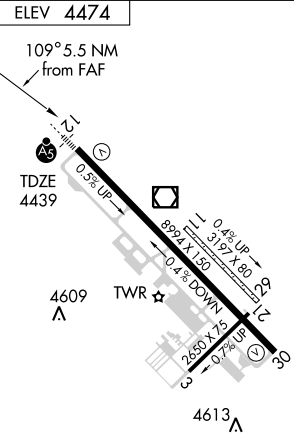
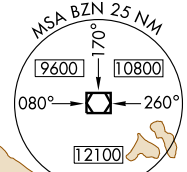
ATIS 135.425	SALT LAKE CENTER 132.4 338.3	BOZEMAN TOWER★ 118.2 (CTAF) 0	GND CON 121.8	UNICOM 122.95
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WHITEHALL

113.7 HIA

Chan 84



<div><div>5300</div><div>9200</div><div>BZN R-320</div><div>MENAR</div></div>				
<div><div>(DMJLG) BZN 14</div><div>(CFKSH) BZN 10</div><div>(EHUTU) BZN 6</div><div>(MADSE) BZN 1</div></div>				
<div>Procedure Turn NA</div>				
<div>8300 7100 5900</div>				
<div>4 NM 4 NM 5 NM 0.5</div>				
CATEGORY	A	B	C	D
S-12	4900-1/2 461 (500-1/2)		4900-3/4 461 (500-3/4)	4900-1 461 (500-1)
CIRCLING	4940-1 466 (500-1)		4940-1 1/2 466 (500-1 1/2)	5040-2 566 (600-2)

VOR/DME BZN 112.4 Chan 71	APP CRS 101°	Rwy Idg 8994 TDZE 4439 Apt Elev 4474
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VOR RWY 12
BOZEMAN/GALLATIN FIELD (BZN)

T	Inoperative table does not apply.
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MALSR

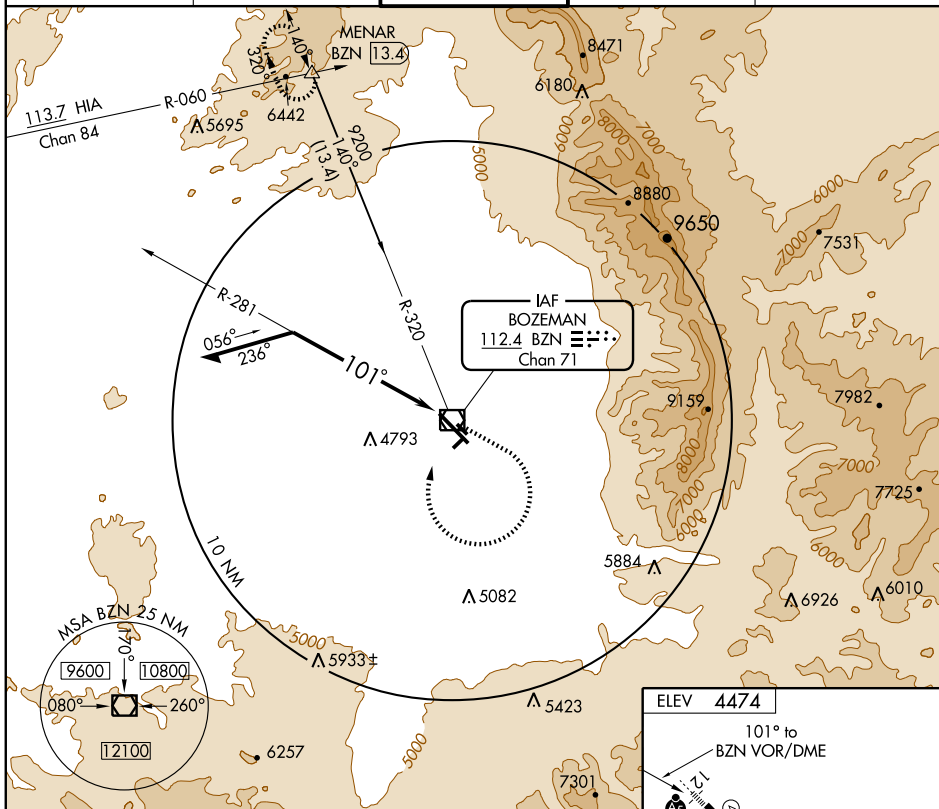
MISSED APPROACH: Climb to 5300, then climbing right turn to 9200 via heading 350° to intercept BZN R-320, then via BZN R-320 to MENAR Int and hold.

ATIS
135.425

SALT LAKE CENTER
132.4 338.3

BOZEMAN TOWER★
118.2 (CTAF) L

GND CON
121.8

UNICOM
122.95

Remain
within 10 NM

* VOR/DME

5300

920

MENAR

6200

100

* Maintain 7000 or above until established outbound for procedure turn.

CATEGORY	A	B	C	D
S-12	5240-1 801 (800-1)	5240-1 ¼ 801 (800-1 ¼)	5240-2 ¼ 801 (800-2 ¼)	5240-2 ½ 801 (800-2 ½)
CIRCLING	5240-1 766 (800-1)	5240-1 ¼ 766 (800-1 ¼)	5240-2 ¼ 766 (800-2 ¼)	5240-2 ½ 766 (800-2 ½)

ELEV 4474

101° to



A5

TD
1.1.

44.

4

/

DEU 5

REIL P

HIRL

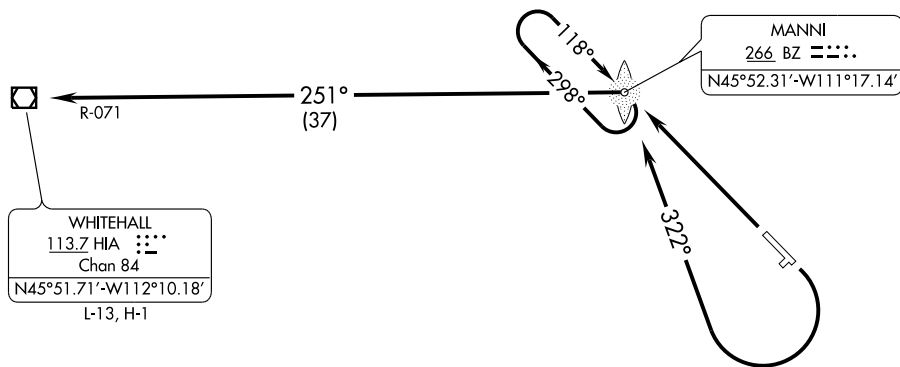
NW-1. 08 APR 2010 to 06 MAY 2010

WHITEHALL ONE DEPARTURE

BOZEMAN/ GALLATIN FIELD (BZN)
BOZEMAN, MONTANA

SL-59 (FAA)

ATIS 135.425
 GND CON
 121.8
 BOZEMAN TOWER ★
 118.2 (CTAF)
 SALT LAKE CITY CENTER
 132.4 338.3



NOTE: ADF REQUIRED

TAKE-OFF MINIMUMS

Rwy 3, 21: NA - ATC.

Rwy 12: Standard

Rwy 30: Standard with minimum climb of 294' per NM to 6500.

TAKE-OFF OBSTACLE NOTES

Rwy 30: Pole 636' from DER, 622' left of centerline, 62' AGL/4452' MSL.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 12: Climbing right turn to intercept 322° course to MANNI LOM. Climb in MANNI LOM holding pattern to at or above 8500, then intercept HIA R-071 to HIA VOR/DME, cross HIA VOR/DME at or above MCA or MEA for route of flight.

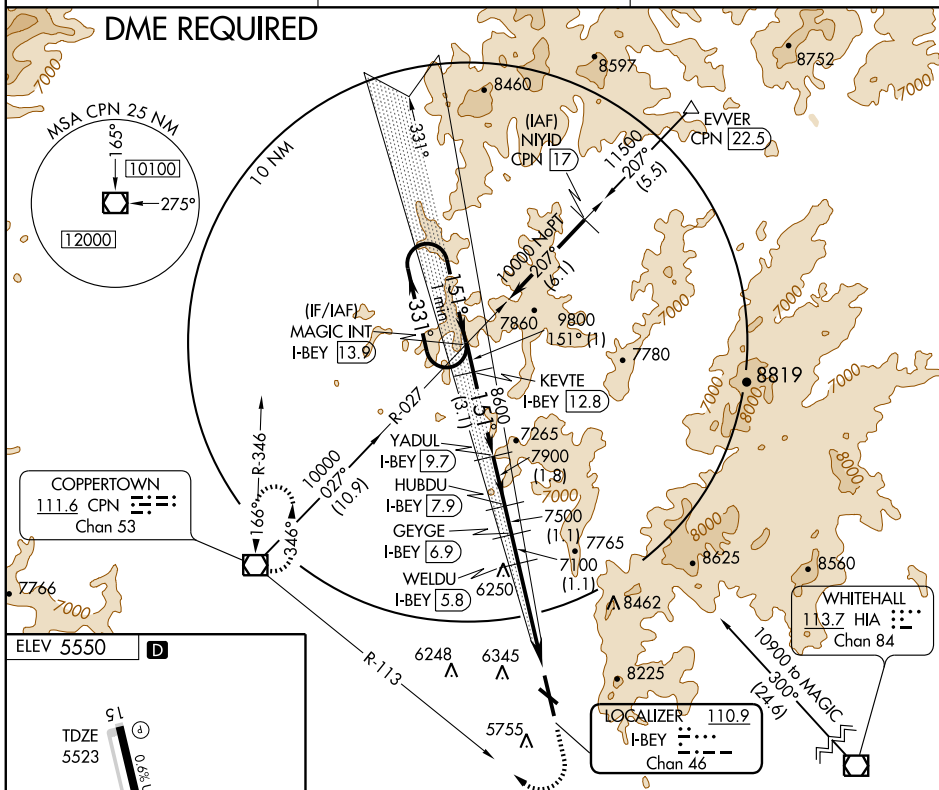
TAKE-OFF RUNWAY 30: Climbing left turn direct MANNI LOM. Climb in MANNI LOM holding pattern to at or above 8500, then intercept HIA R-071 to HIA VOR/DME, cross HIA VOR/DME at or above MCA or MEA for route of flight.

ILS Y RWY 15
BUTTE/ BERT MOONEY (BTM)

MISSED APPROACH: Climb to 7300 then climbing right turn to 9100 via CPN VOR/DME R-113 to CPN VOR/DME and hold.

UNICOM
123.0 (CTAF) **L**

DME REQUIRED



D

CPN


11.6

REIL Rwy 11, 15 and 29 **L**
MIRL Rwy 11-29 and 15-33 **L**

AL-588 (FAA)

LOC/DME I-BEY <u>110.9</u> Chan 46	APP CRS 151°	Rwy Idg 9001 TDZE 5523 Apt Elev 5550
--	------------------------	---

LOC/DME RWY 15
BUTTE/ BERT MOONEY (BTM)

T Circling not authorized NE of Rwy 15-33.
A If local altimeter setting not received, procedure NA.

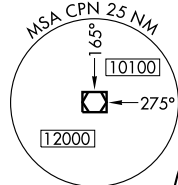
MISSED APPROACH: Climbing right turn to 9200 direct CPN VOR/DME and hold.

ASOS
135.175

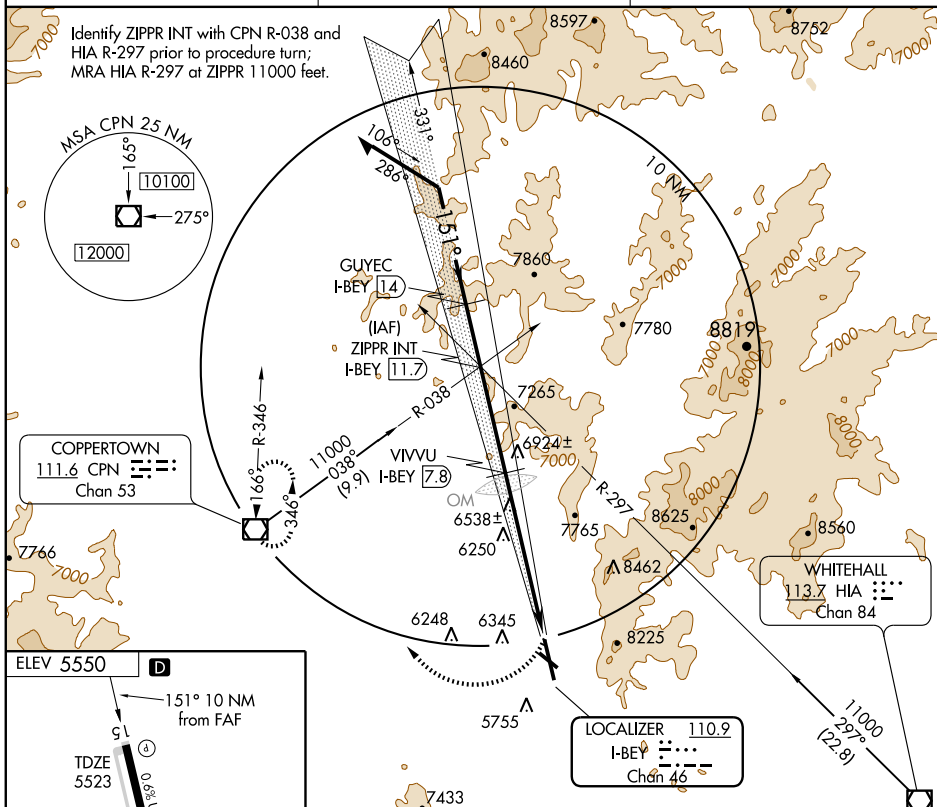
SALT LAKE CENTER
132.4 338.3

UNICOM
123.0 (CTAF) **L**

Identify ZIPPR INT with CPN R-038 and HIA R-297 prior to procedure turn; MRA HIA R-297 at ZIPPR 11000 feet.

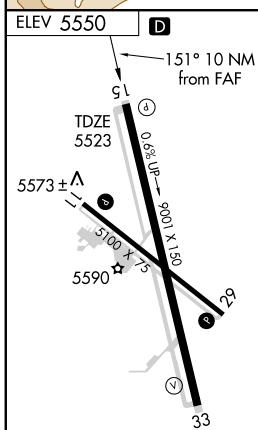


COPPERTOWN
111.6 CPN 
Chan 53




WHITEHALL
13.7 HIA ::
Chan 84

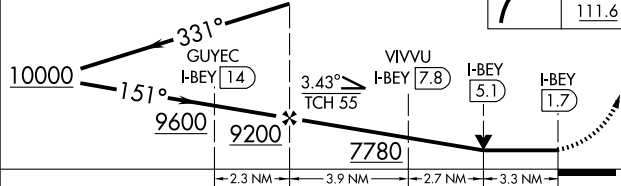
LOCALIZER 110.9
I-BEY
Chan 46



Remain
within 10 NM

ZIPPR INT
I-BFY 117

9200	CPN
	
	<u>111.6</u>



CATEGORY	A	B	C	D
S-LOC 15	6800-1¼ 1277 (1300-1¼)	6800-1½ 1277 (1300-1½)	6800-3	1277 (1300-3)
CIRCLING	6800-1¼ 1250 (1300-1¼)	6800-1½ 1250 (1300-1½)	6800-3	1250 (1300-3)

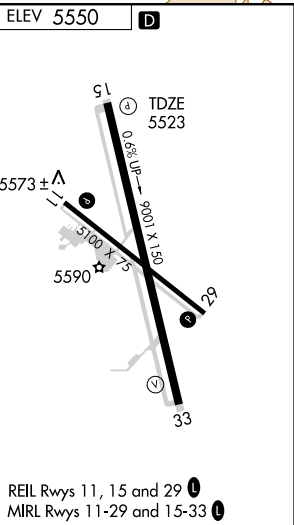
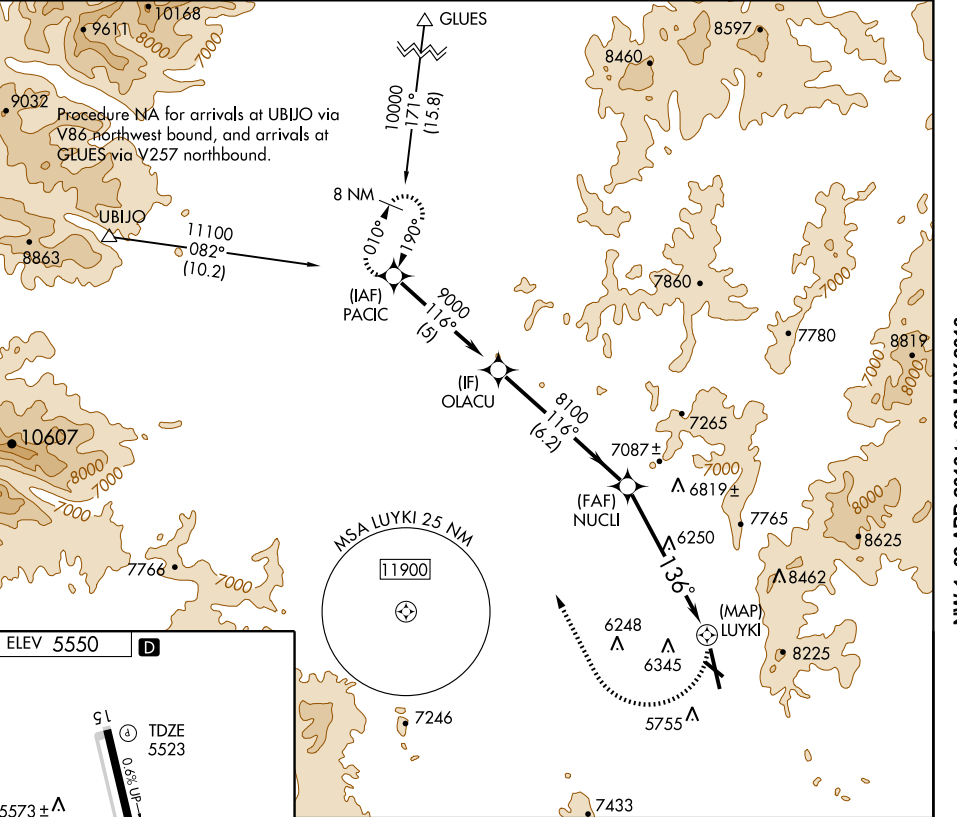
REIL Rwys 11, 15 and 29 **L**
MIRL Rwys 11-29 and 15-33 **L**

NW-1. 08 APR 2010 to 06 MAY 2010

Circling NA northeast of Rwy 15-33.
 DME/DME RNP -0.3 NA.
 Visibility reduction by helicopters NA.
 If local altimeter setting not received, procedure NA.

MISSED APPROACH: Climbing right turn to 10000 direct PACIC and hold.

ASOS 135.175	SALT LAKE CENTER 132.4 338.3	UNICOM 123.0(CTAF) 0
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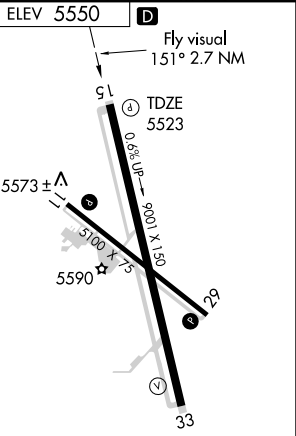
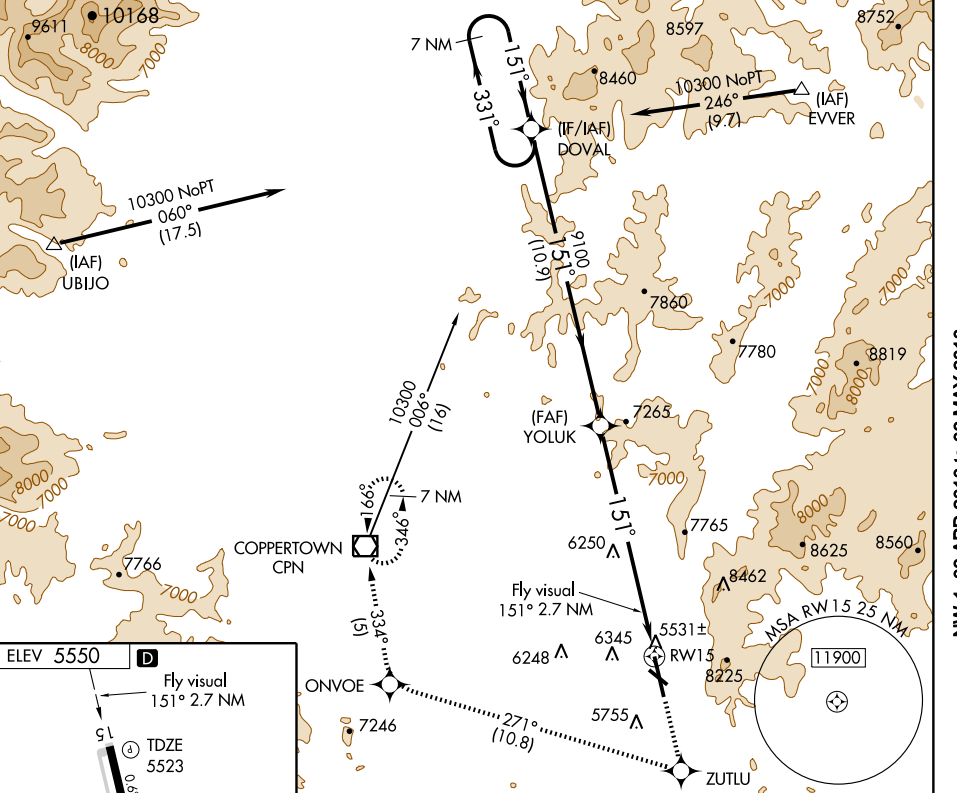


	OLACU	NUCU	LUYKI	
	9000	8100	5755	
	Procedure Turn NA			
	6.2 NM	6 NM	0.5 NM	
CATEGORY	A	B	C	D
RNAV MDA	7040-1¼ 1517 (1500-1¼)	7040-1½ 1517 (1500-1½)	7040-3 1517 (1500-3)	NA
CIRCLING	7040-1¼ 1490 (1500-1¼)	7040-1½ 1490 (1500-1½)	7040-3 1490 (1500-3)	

DME/DME RNP- 0.3 NA.
 If local altimeter setting not received, procedure NA.

MISSED APPROACH: Climb to 10000 direct ZUTLU and right turn via 271° track to ONVOE and via 334° track to CPN VOR/DME and hold, continue climb-in-hold to 10000.

ASOS 135.175	SALT LAKE CENTER 132.4 338.3	UNICOM 123.0(CTAF)
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7 NM Holding Pattern

DOVAL

10000

ZUTLU

ONVOE

334° track

CPN

VGSI and RNAV glidepath not coincident.

10300

331°

151°

151°

9100

YOLUK

RWY 15

Fly visual 151° 2.7 NM

GS 3.88°

TCH 55

10.9 NM

5.7 NM

2.7 NM

CATEGORY	A	B	C	D
LPV DA	6660-2	1137 (1200-2)		NA
LNNAV/VNAV DA			NA	
LNNAV MDA			NA	
CIRCLING			NA	

REIL Rwy 11, 15 and 29

MIRL Rwy 11-29 and 15-33

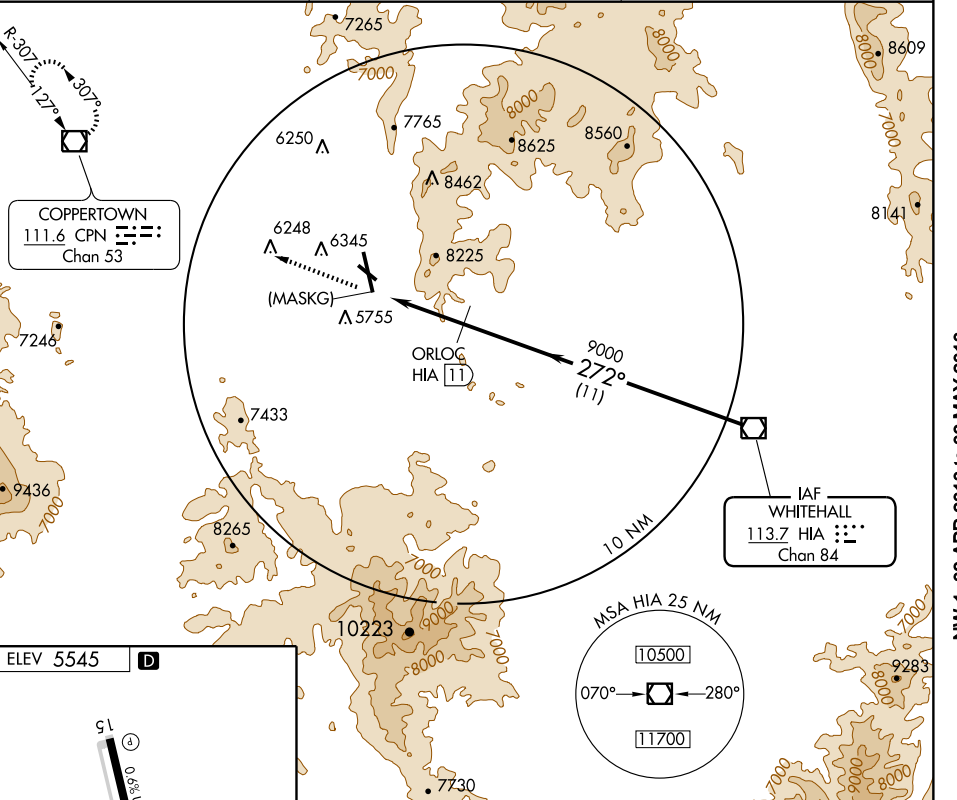
▼

▲

Circling NA northeast of Rwy 15-33.

MISSED APPROACH: Climb to 9000 direct CPN VOR/DME and hold.

ASOS 135.175	SALT LAKE CENTER 132.4 338.3	UNICOM 123.0(CTAF)
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ELEV 5545

D

The inset chart shows the runway layout for Rwy 11, 15, and 29. Key features include:

- Altitudes:** 5573 ±, 5590, and 5590.
- Distances:** 3.4 NM from FAF, 3.4 NM, and 11 NM.
- Headings:** 272° and 33°.

9000

CPN 111.6

ORLOG HIA 11

(MASKG) HIA 14.4

VOR/DME 9000

Procedure Turn NA

CATEGORY	A	B	C	D
CIRCLING	8540-1¼ 2995 (3000-1¼)	8540-1½ 2995 (3000-1½)	8540-3	2995 (3000-3)

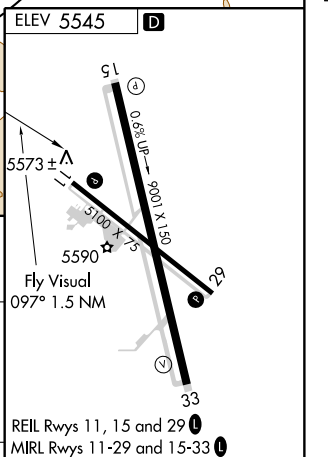
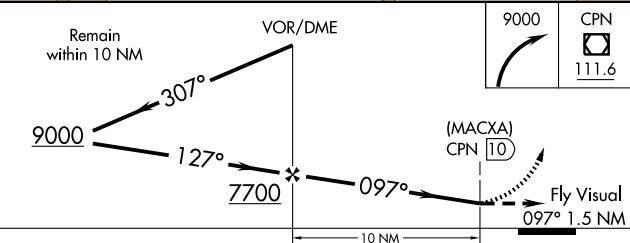
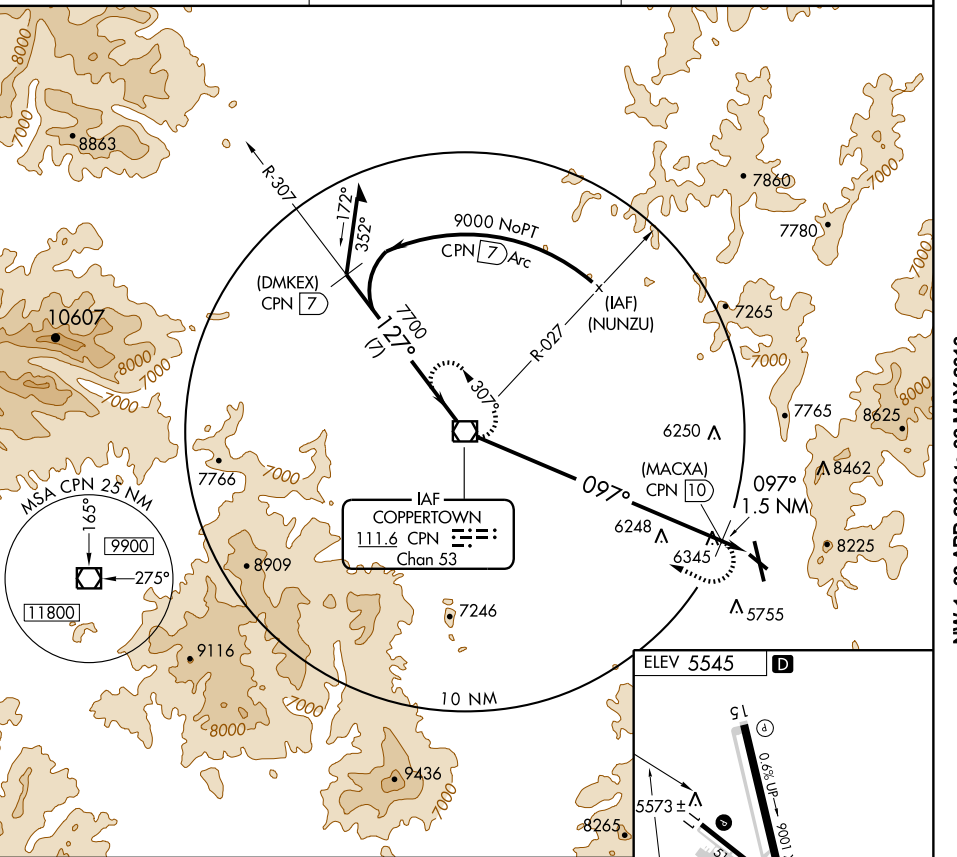
REIL Rwys 11, 15, and 29
MIRL Rwys 11-29 and 15-33

VOR/DME CPN 111.6 Chan 53	APP CRS 097°	Rwy Idg TDZE Apt Elev N/A N/A 5545
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**Circling not authorized NE of Rwy 15-33.**

MISSED APPROACH: Climbing right turn to 9000 direct CPN VOR/DME and hold.

ASOS 135.175	SALT LAKE CENTER 132.4 338.3	UNICOM 123.0(CTAF) 0
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CATEGORY	A	B	C	D	FAF to MAP 10 NM					
CIRCLING	6900-1½ 1355 (1400-1½)		6900-3 1355 (1400-3)		Knots	60	90	120	150	180
					Min:Sec	10:00	6:40	5:00	4:00	3:20

NW-1. 08 APR 2010 to 06 MAY 2010

NDB CII <u>269</u>	APP CRS 226°	Rwy Idg TDZE Apt Elev	3700 3940 3949
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NDB or GPS RWY 23
CHOTEAU (CII)

CHOTEAU (CII)

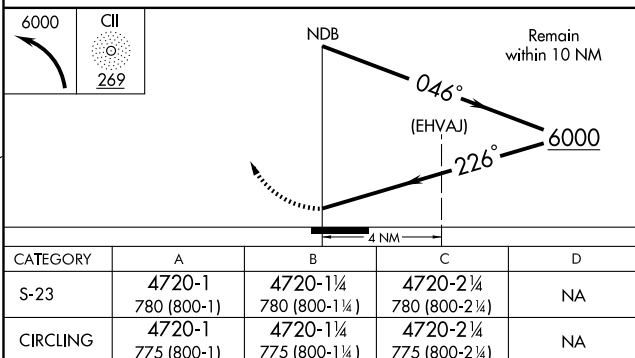
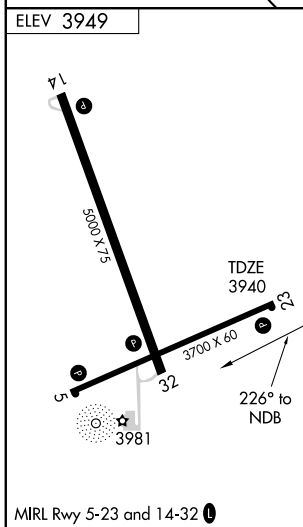
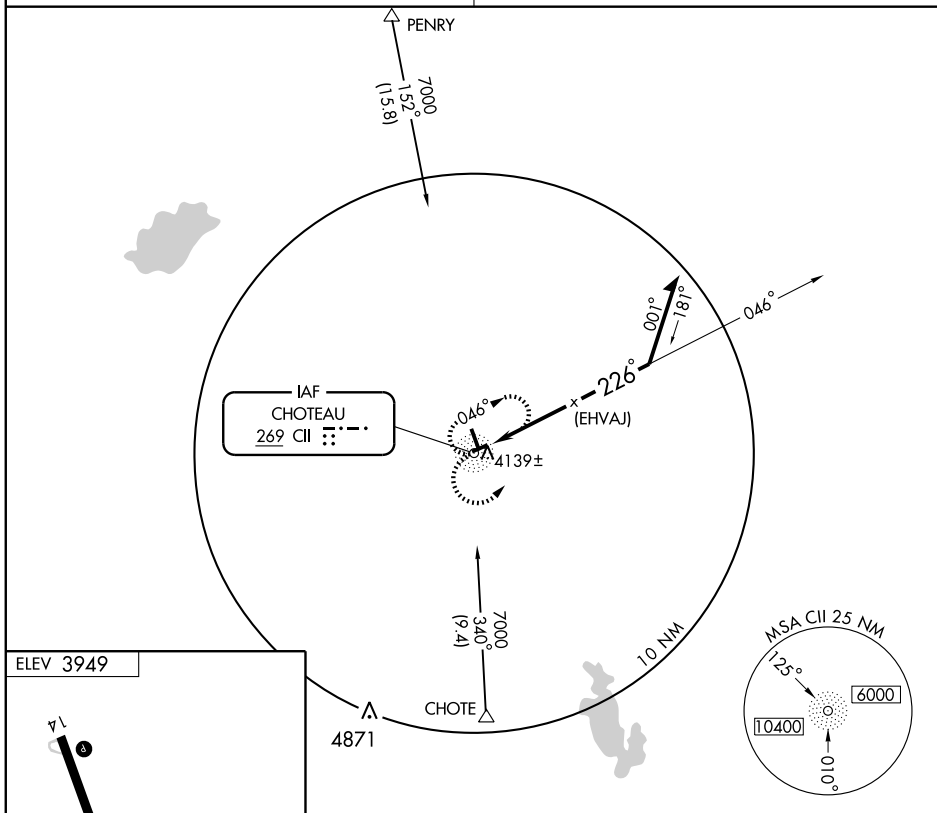
ANA

Use Great Falls altimeter setting.

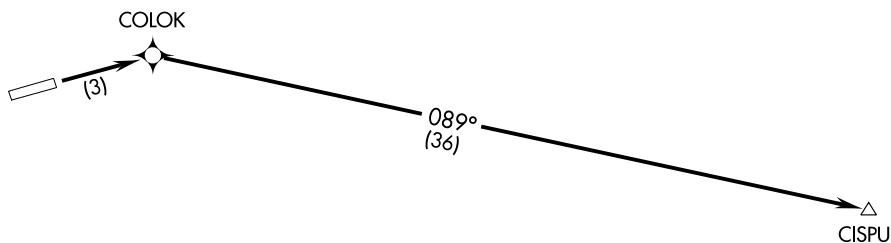
MISSED APPROACH: Climbing left turn to 6000 direct CII NDB and hold.

SALT LAKE CITY CENTER
133.4 285.4

UNICOM
122.8 (CTAF) **L**



SALT LAKE CENTER
127.75 351.9



TAKE-OFF MINIMUMS

Rwy 6: Standard.
Rwy 24: NA - ATC.

TAKE-OFF OBSTACLE NOTES

Rwy 6: Tree 1492' from DER, 620' right of centerline, 20' AGL/3499' MSL.
Tree 507' from DER, 598' left of centerline, 20' AGL/3419' MSL.

NOTE: GPS required.

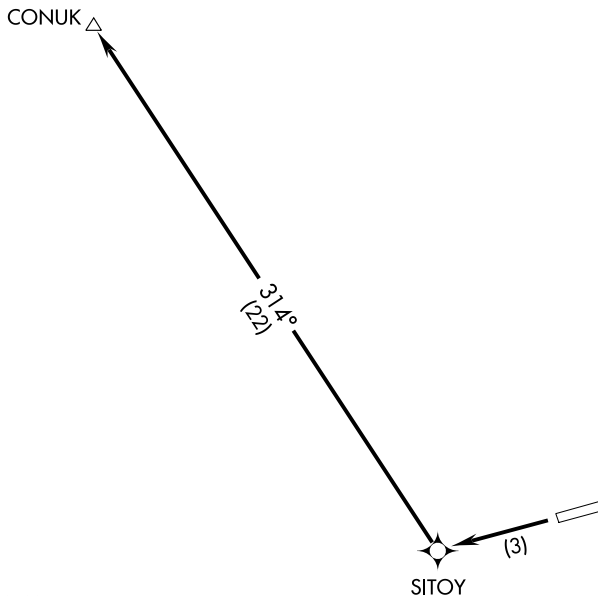
NOTE: RNAV 1

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 6: Climb direct COLOK then via 089° track to CISPU, thence....
....Maintain 9000, expect filed altitude 10 minutes after departure.

CONUK ONE DEPARTURE (RNAV) (OBSTACLE)

SALT LAKE CENTER
127.75 351.9TAKE-OFF MINIMUMS

Rwy 6: NA - ATC.

Rwy 24: 600-3 or standard with minimum climb of 365' per NM to 4200.

TAKE-OFF OBSTACLE NOTE

Rwy 24: Dragline 11510' from DER, 3559' right of centerline, 225' AGL/3964' MSL.

NOTE: GPS required.

NOTE: RNAV 1

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 24: Climb direct SITOY then via 314° track to CONUK, thence....

....Maintain 6000, expect filed altitude 10 minutes after departure.

GPS RWY 6
COLSTRIP (M46)

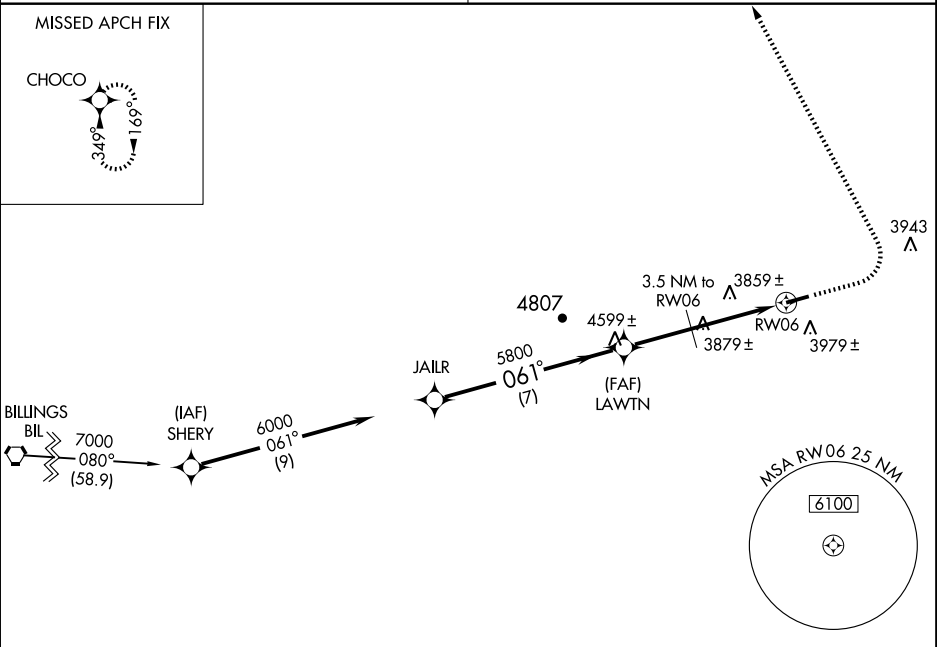
APP CRS	Rwy Idg	5100
061°	TDZE	3426
	Apt Elev	3426

NA When local altimeter not received use Miles City altimeter setting.

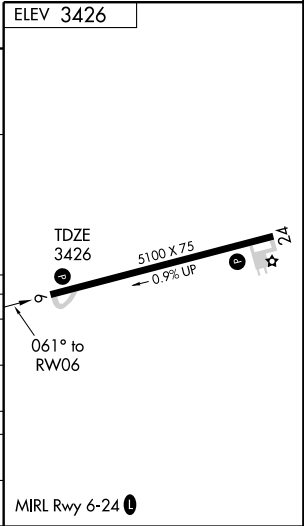
MISSED APPROACH: Climb to 4500 then climbing left turn to 6000 direct CHOCO WP and hold.

SALT LAKE CENTER
127.75 351.9

CTAF
122.9



ELEV 3426				
*5045 when using Miles City altimeter setting.				
<div><div>4500</div><div>6000</div><div>CHOCO</div></div>				
<div><div>JAILR</div><div>LAWTN</div><div>RW06</div></div>				
<div><div>6000</div><div>5800</div><div>*4800</div></div>				
<div><div>7 NM</div><div>2.5 NM</div><div>3.5 NM</div></div>				
CATEGORY	A	B	C	D
S-6	4220-1 794 (800-1)	4220-1 ¼ 794 (800-1 ¼)	4220-2 ¼ 794 (800-2 ¼)	NA
CIRCLING	4340-1 ¼ 914 (1000-1 ¼)	914 (1000-1 ¼)	4340-2 ¾ 914 (1000-2 ¾)	NA
MILES CITY ALTIMETER SETTING				
S-6	NA			
CIRCLING	4580-1 ¼ 1154 (1200-1 ¼)	4580-1 ½ 1154 (1200-1 ½)	4580-3 1154 (1200-3)	NA



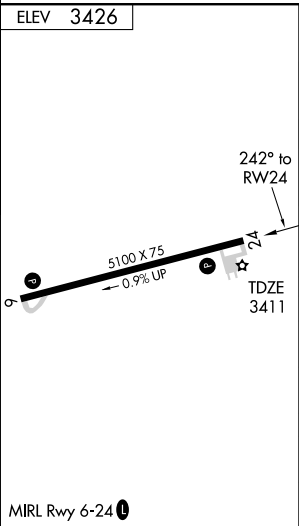
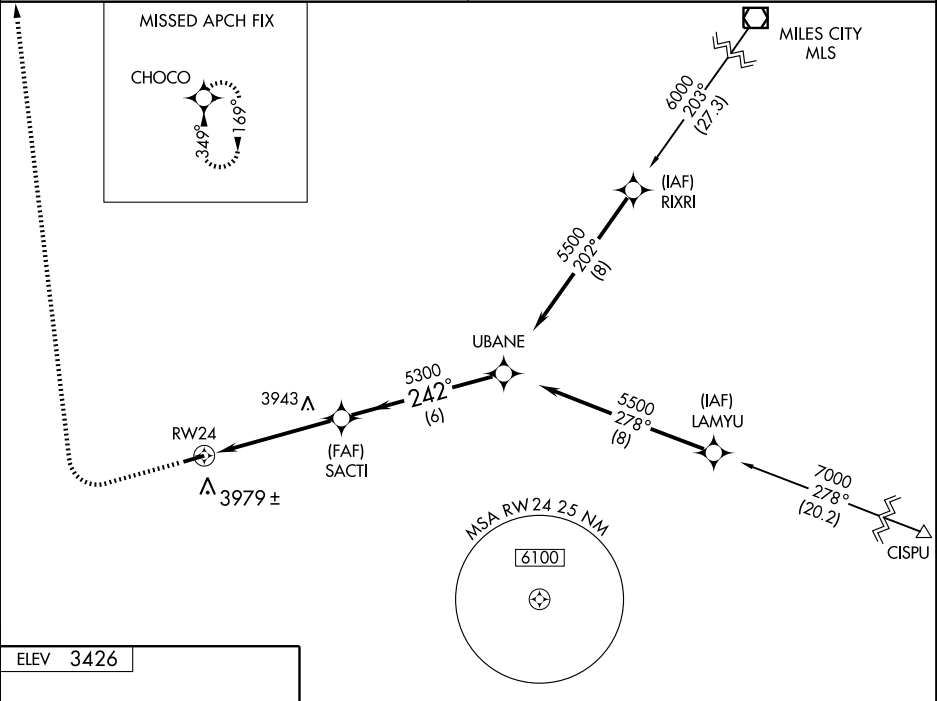
GPS RWY 24
COLSTRIP (M46)

APP CRS	Rwy Idg	5100
242°	TDZE	3411
	Apt Elev	3426

NA When local altimeter not received use Miles City altimeter setting.

MISSED APPROACH: Climb to 4500 then climbing right turn to 6000 direct CHOCO WP and hold.

SALT LAKE CENTER 127.75 351.9	CTAF 122.9
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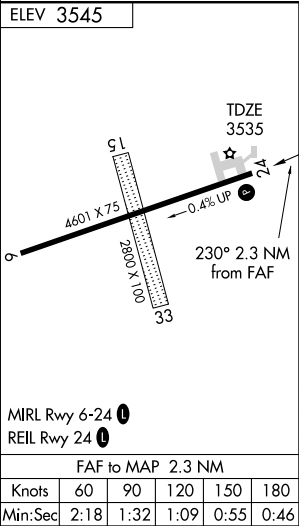
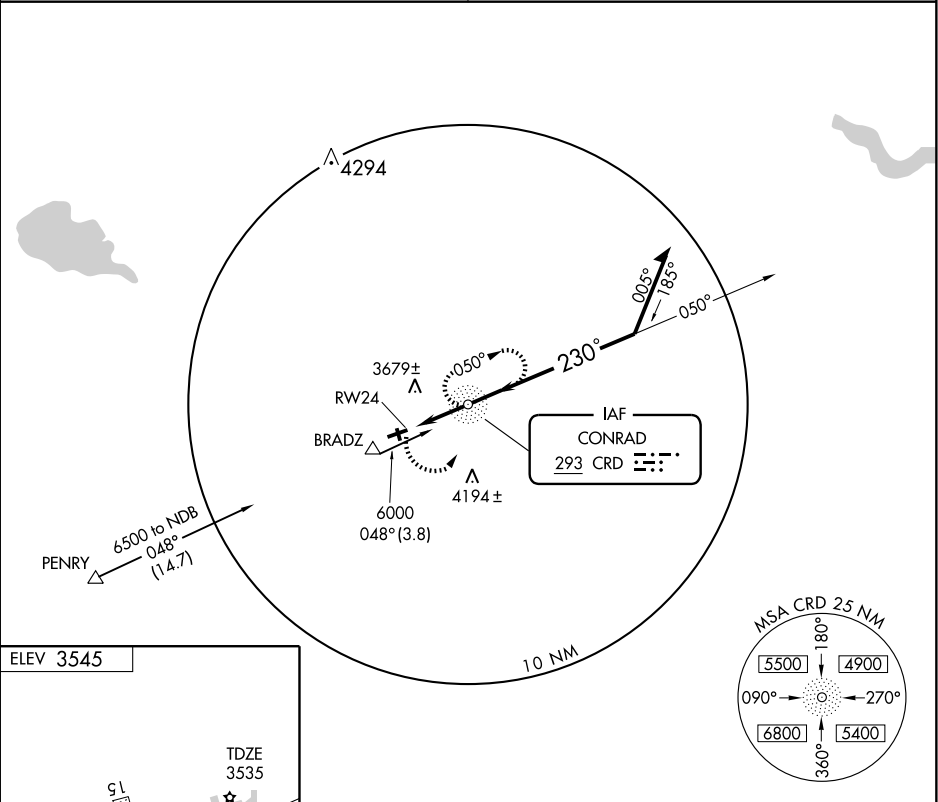
	4500	6000	CHOCO	
			SACTI	UBANE
			5300	5500
				Procedure Turn NA
CATEGORY	A	B	C	D
S-24	4200-1 789 (800-1)	4200-1¼ 789 (800-1¼)	4200-2¼ 789 (800-2¼)	NA
CIRCLING	4340-1¼ 914 (1000-1¼)	4340-1¼ 914 (1000-1¼)	4340-2¾ 914 (1000-2¾)	NA
MILES CITY ALTIMETER SETTING				
S-24	4440-1¼ 1029 (1100-1¼)	4440-1½ 1029 (1100-1½)	4440-2¾ 1029 (1100-2¾)	NA
CIRCLING	4580-1¼ 1154 (1200-1¼)	4580-1½ 1154 (1200-1½)	4580-3 1154 (1200-3)	NA


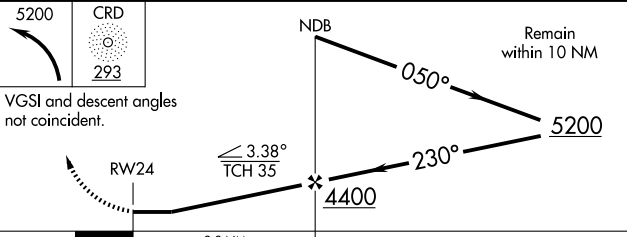
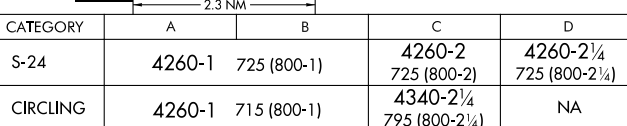
NDB CRD 293	APP CRS 230°	Rwy Idg TDZE Apt Elev	4601 3535 3545
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NDB or GPS RWY 24

CONRAD (S01)

<div><div>▼</div><div>NA</div></div> <div>Use Cut Bank altimeter setting; if not received, procedure not authorized.</div>	MISSED APPROACH: Climbing left turn to 5200 direct CRD NDB and hold.
SALT LAKE CITY CENTER 133.4 285.4	UNICOM 122.8 (CTAF) 0



5200	CRD  293				
VGSI and descent angles not coincident.					
					
CATEGORY	A		B	C	D
S-24	4260-1 725 (800-1)		4260-2 725 (800-2)	4260-2¼ 725 (800-2¼)	
CIRCLING	4260-1 715 (800-1)		4340-2¼ 795 (800-2¼)	NA	

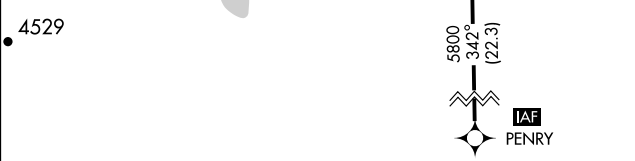
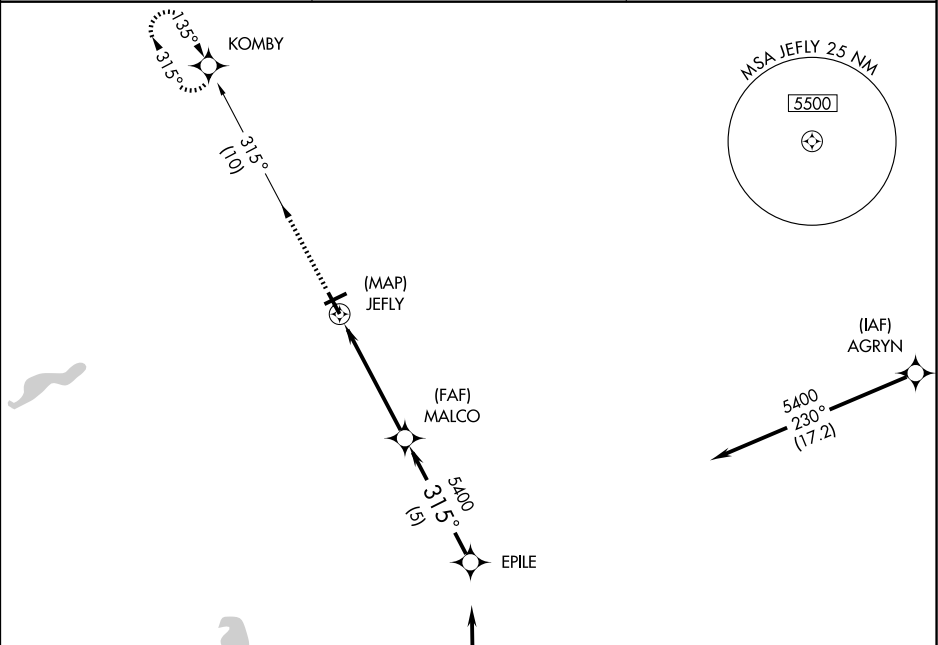
APP CRS	Rwy Idg	5300
315°	TDZE	3847
	Apt Elev	3854

GPS RWY 31

CUT BANK MUNI (CTB)

▲ NA	IAF ARM APPROACH MODE PRIOR TO IAF.	MISSED APPROACH: Climb to 6000 via 315° course to KOMBY WP and hold.
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ASOS 119.025	SALT LAKE CITY CENTER 133.4 285.4	UNICOM 122.8 (CTAF) 0
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6000

↑

CRS 315°

KOMBY

✦

MALCO

EPILE

JEFly

✕

5400

315°

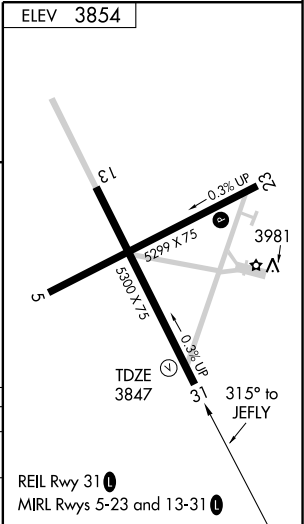
5400

Procedure Turn
NA

5 NM

5 NM

CATEGORY	A	B	C	D
S-31	4220-1 373 (400-1)			4220-1¼ 373 (400-1¼)
CIRCLING	4220-1 366 (400-1)	4320-1 466 (500-1)	4320-1½ 466 (500-½)	4420-2 566 (600-2)



VOR/DME DLN <u>113.0</u> Chan 77	APP CRS 185°	Rwy Idg N/A TDZE N/A Apt Elev 5241
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VOR/DME or GPS-B
DILLON (DLN)

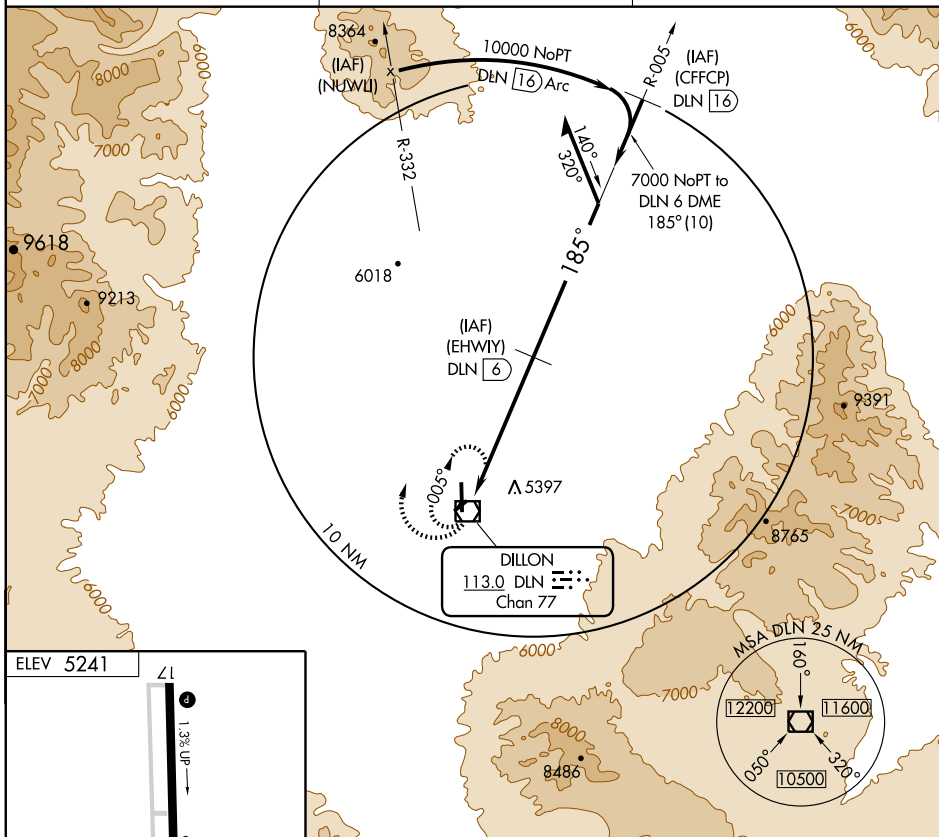
T Procedure not authorized when Dillon altimeter setting
A not available.

MISSED APPROACH: Climb to 9000 in DLN VOR/DME holding pattern.

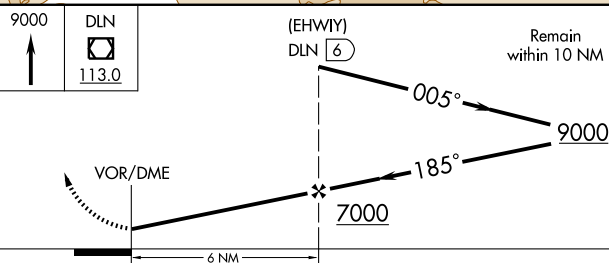
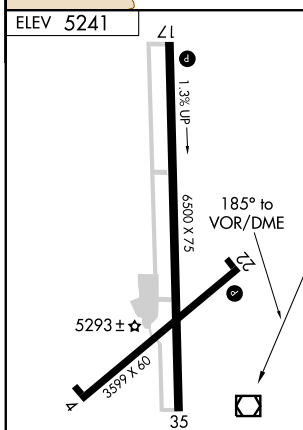
ASOS
135,225

SALT LAKE CENTER
132.4 338.3

UNICOM
122.8 (CTAF) **L**



NW-1. 08 APR 2010 to 06 MAY 2010



						CATEGORY	A	B	C	D
Knots	60	90	120	150	180	CIRCLING	5720-1	5740-1	5760-1½	5840-2
Min:Sec							482 (500-1)	502 (600-1)	522 (600-1½)	602 (700-2)

VOR/DME DLN <u>113.0</u> Chan 77	APP CRS 185°	Rwy Idg N/A TDZE N/A Apt Elev 5241
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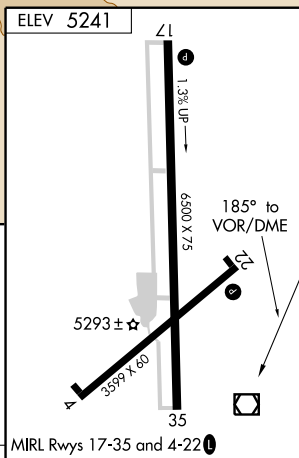
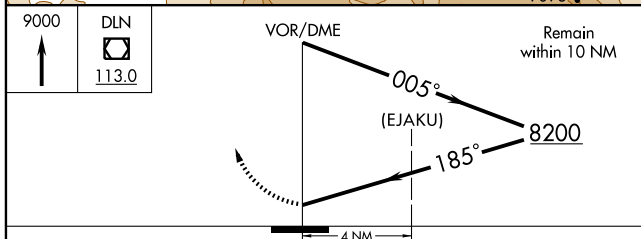
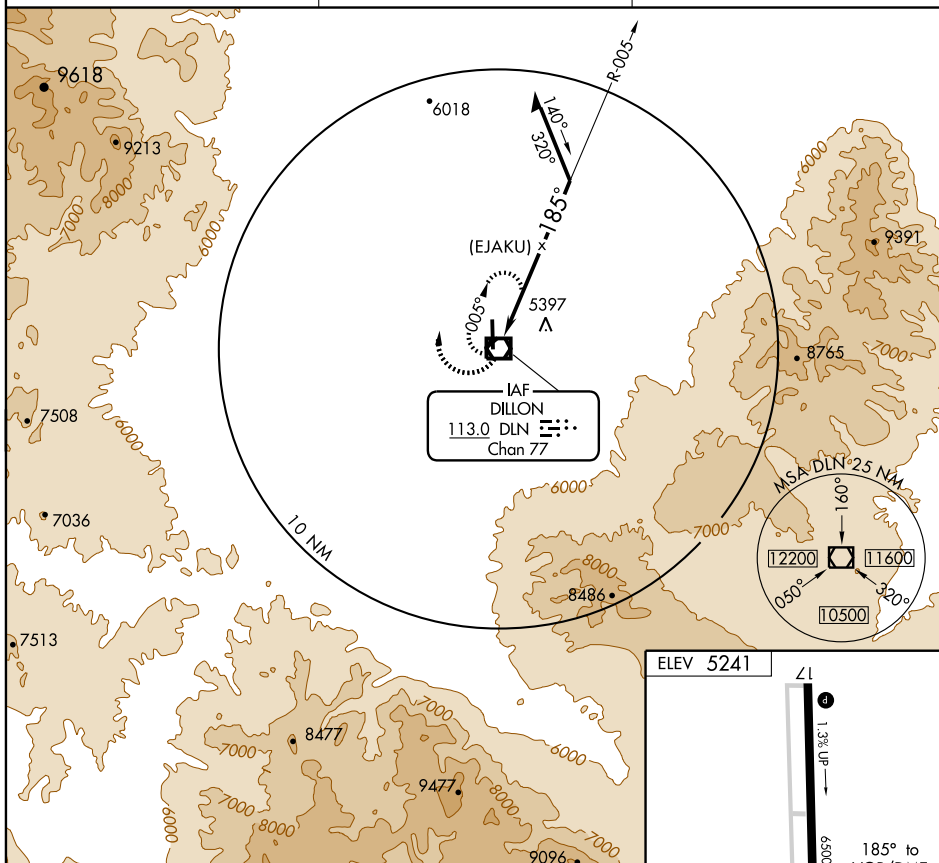
VOR or GPS-A
DILLON (DLN)

T	Procedure not authorized when Dillon altimeter setting
A	not available.

MISSED APPROACH: Climb to 9000 in DLN VOR/DME holding pattern.

ASOS
135.225

SALT LAKE CENTER
132.4 338.3

UNICOM
122.8 (CTAF) **L**

CATEGORY	A	B	C	D
CIRCLING	6700-1¼ 1462 (1500-1¼)	6700-1½ 1462 (1500-1½)	6700-3	1462 (1500-3)

Knots	60	90	120	150	180
Min:Sec					

NDB FOR	APP CRS	Rwy Idg	4799
<u>236</u>	<u>257°</u>	TDZE	2726
		Apt Elev	2727

NDB RWY 26
FORSYTH/ TILLITT FIELD (1S3)

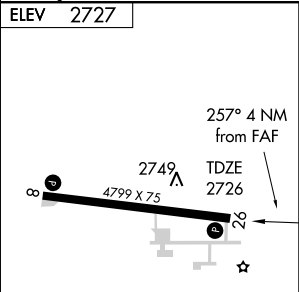
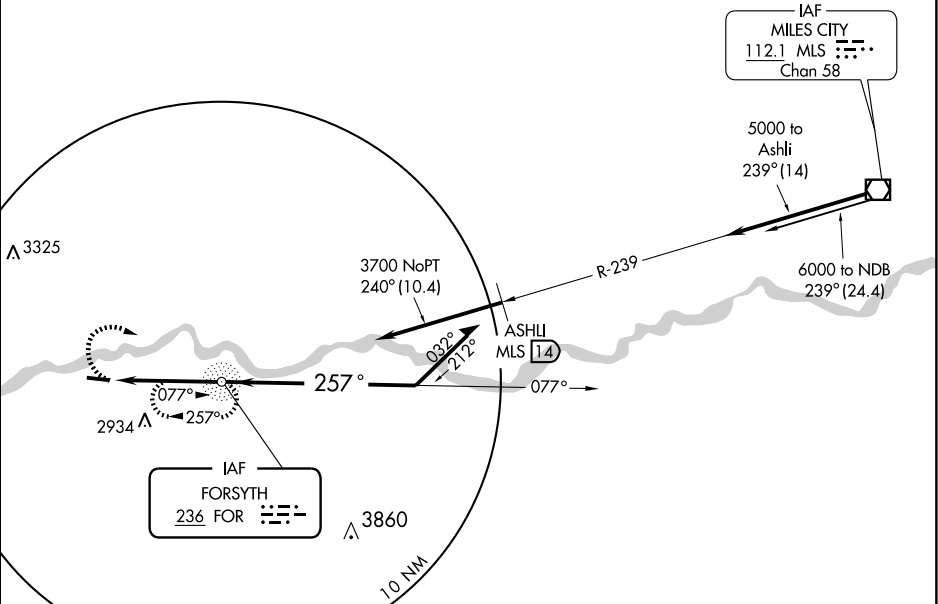
Use Miles City altimeter setting, when not available, except for operators with approved weather reporting services, procedure not authorized.

MISSED APPROACH: Climbing right turn to 4700 direct FOR NDB and hold.



GREAT FALLS RADIO
122.2 255.4

UNICOM
122.8 (CTAF) 0



MIRL Rwy 8-26 0

FAF to MAP 4 NM					
Knots	60	90	120	150	180
Min:Sec	4:00	2:40	2:00	1:36	1:20

4700 FOR 236		NDB 077° 257° 4700		Remain within 10 NM	
3700		4 NM			
CATEGORY	A	B	C	D	
S-26	3340-1	614 (700-1)	3340-1 3/4	3340-2	
			614 (700-1 3/4)	614 (700-2)	
CIRCLING	3340-1	3420-1	3420-2	3440-2 1/4	
	614 (700-1)	694 (700-1)	694 (700-2)	714 (800-2 1/4)	

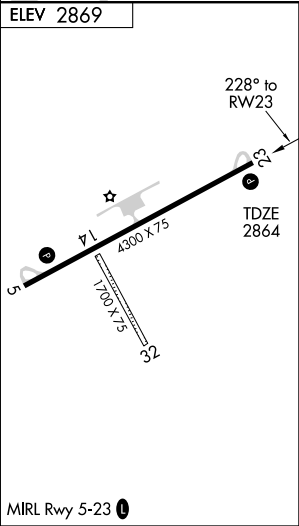
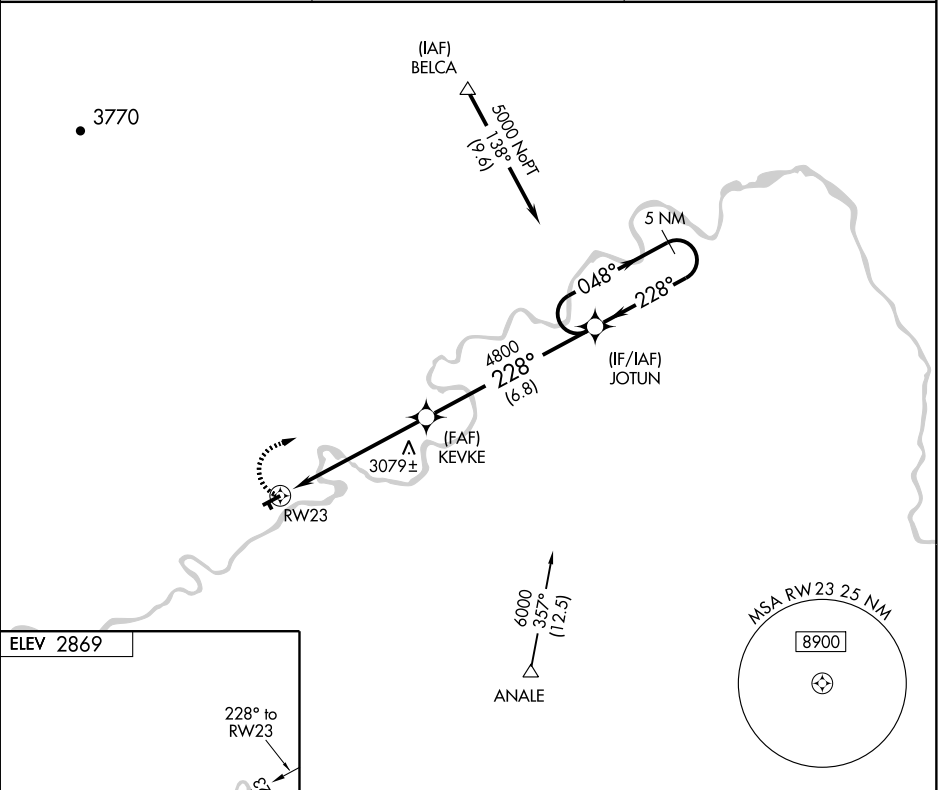
APP CRS	Rwy Idg	4300
228°	TDZE	2864
	Apt Elev	2869

RNAV (GPS) RWY 23

FORT BENTON (79S)

<p>⚠ DME/DME RNP-0.3 NA. Procedure NA at night.</p> <p>⚠ When local altimeter setting not received, use Great Falls altimeter setting and increase all MDA 280 feet and all Cat B and C visibilities 1 mile.</p>	<p>MISSED APPROACH: Climbing right turn to 5000 direct JOTUN and hold.</p>
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AWOS-A 122.8	SALT LAKE CENTER 133.4 285.4	UNICOM 122.8 (CTAF) 0
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	5000	JOTUN		
			JOTUN	5 NM Holding Pattern
		1.4 NM to RWY 23	KEVKE	
		≤ 3.05° TCH 40		
		1.4	4.5 NM	6.8 NM
CATEGORY	A	B	C	D
LNAV MDA	3340-1	476 (500-1)	3340-1¼ 476 (500-1¼)	NA
CIRCLING	3340-1	471 (500-1)	3340-1½ 471 (500-1½)	NA

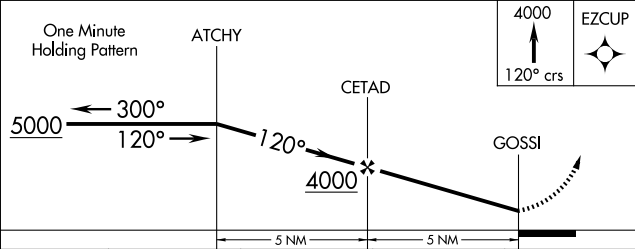
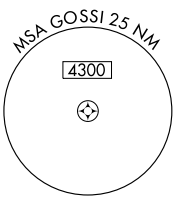
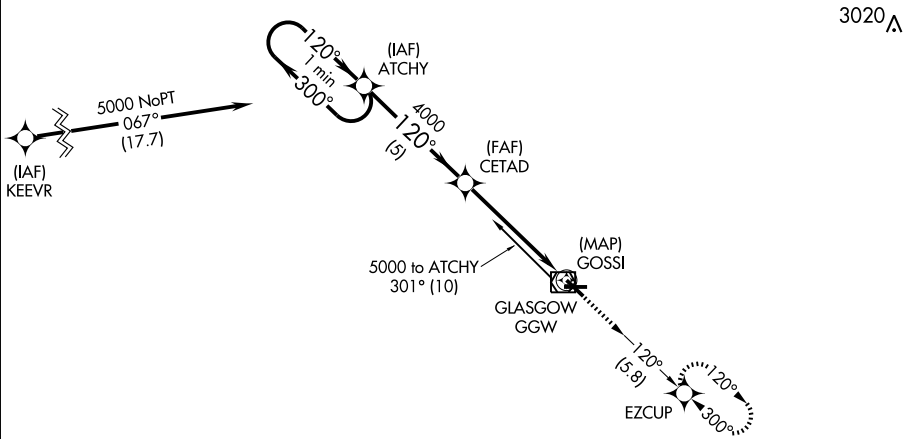
GPS RWY 12

APP CRS	Rwy Idg	5001
120°	TDZE	2291
	Apt Elev	2294

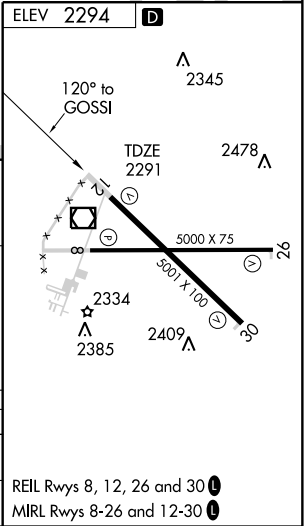
GLASGOW/WOKAL FIELD/GLASGOW INTL (GGW)

▲ NA	MISSED APPROACH: Climb to 4000 via 120° course to EZCUP WP and hold.
------	--

ASOS 135.175	SALT LAKE CENTER 126.85 305.2	UNICOM 122.8 (CTAF) 0
-----------------	----------------------------------	--------------------------



CATEGORY	A	B	C	D
S-12	2720-1	429 (500-1)	2720-1¼ 429 (500-1¼)	2720-1½ 429 (500-1½)
CIRCLING	2780-1	486 (500-1)	2780-1½ 486 (500-1½)	2860-2 566 (600-2)



NDB RWY 30

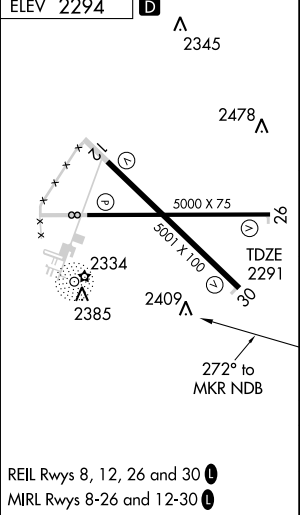
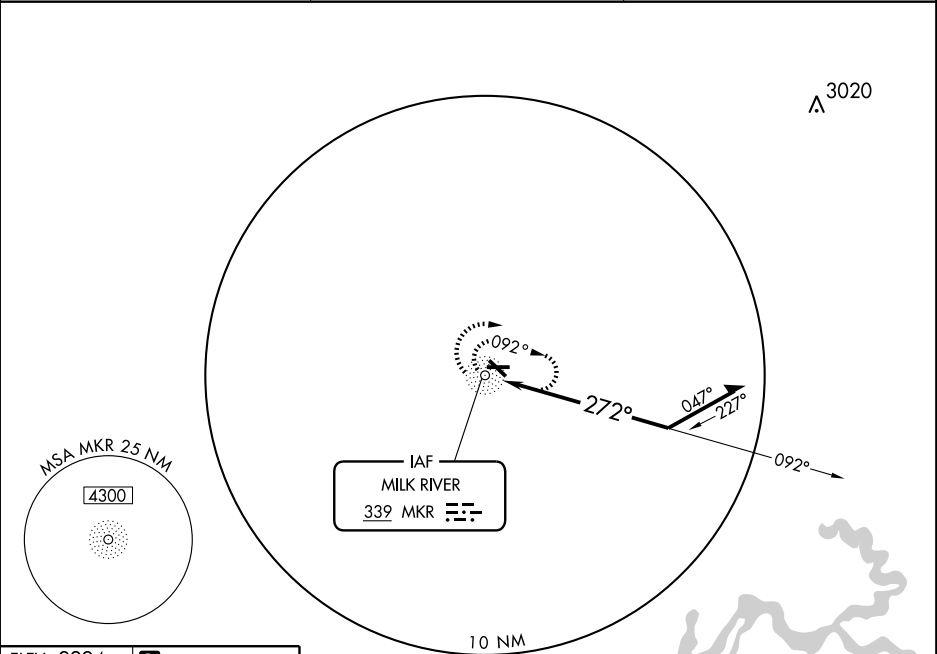
GLASGOW/WOKAL FIELD/GLASGOW INTL (GGW)


NDB MKR	APP CRS	Rwy Idg	5001
339	272°	TDZE	2291
		Apt Elev	2294

ACTIVATE MIRL Rwy 8-26 and 12-30-CTAF.

MISSED APPROACH: Climb to 3900 in MKR NDB holding pattern.

ASOS 135.175	SALT LAKE CENTER 126.85 305.2	UNICOM 122.8 (CTAF) 0
-----------------	----------------------------------	--------------------------



3900	MKR				
CATEGORY	A	B	C	D	
S-30	2840-1	549 (600-1)	2840-1½ 549 (600-1½)	2840-1¾ 549 (600-1¾)	
CIRCLING	2840-1	547 (600-1)	2840-1½ 547 (600-1½)	2860-2 567 (600-2)	

VOR/DME	GGW	APP CRS	Rwy Idg	5001
113.9		293°	TDZE	2291
Chan 86			Apt Elev	2294

VOR or GPS RWY 30

GLASGOW/WOKAL FIELD/GLASGOW INTL (GGW)

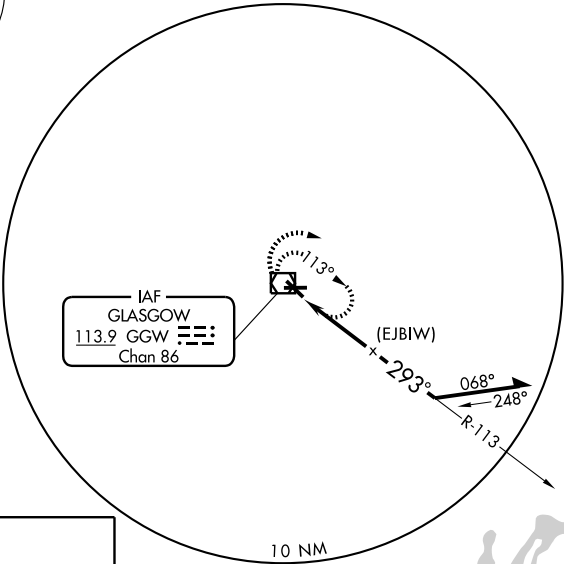
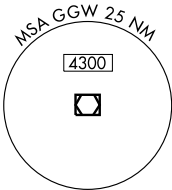
ACTIVATE MIRL Rwy 8-26 and 12-30-CTAF.

MISSED APPROACH: Climb to 3900 in GGW VOR/DME holding pattern.

ASOS
135.175

SALT LAKE CENTER
126.85 305.2

UNICOM
122.8 (CTAF) 0



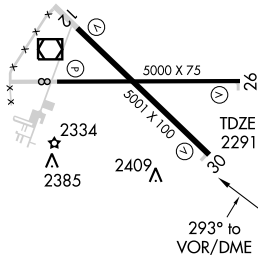
3020
A

ELEV 2294



2345
A

2478
A

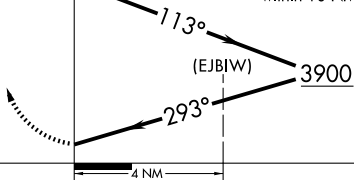


3900

GGW
113.9

VOR/DME

Remain within 10 NM



REIL Rwy 8, 12, 26 and 30 0
MIRL Rwy 8-26 and 12-30 0

CATEGORY	A	B	C	D
S-30	2780-1	489 (500-1)	2780-1¼ 489 (500-1¼)	2780-1½ 489 (500-1½)
CIRCLING	2780-1	487 (500-1)	2780-1½ 487 (500-1½)	2860-2 567 (600-2)

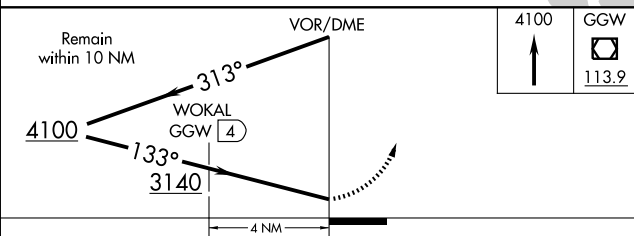
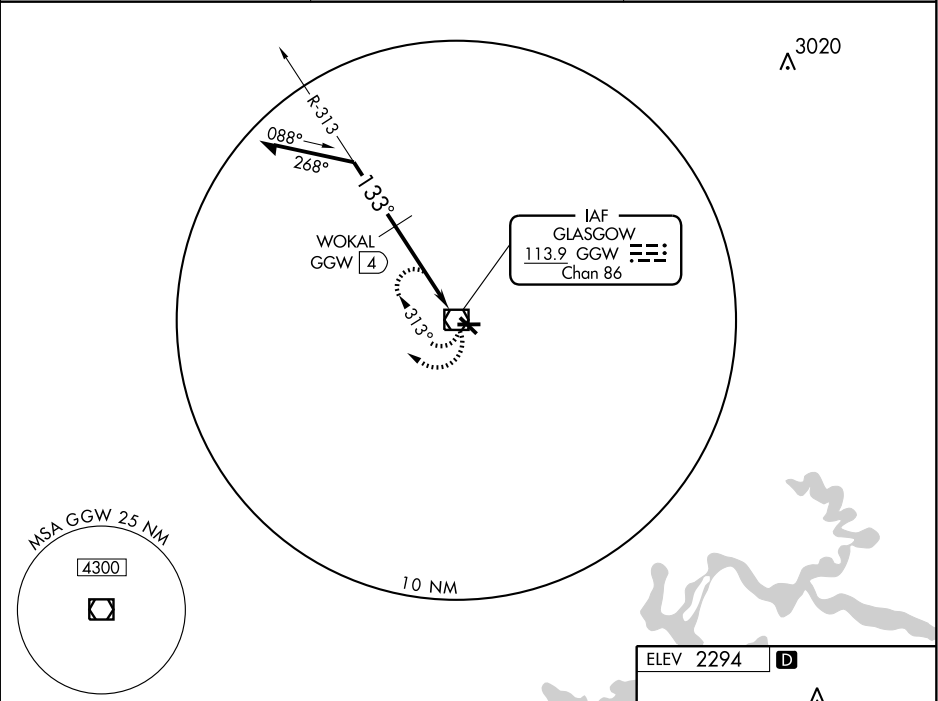
VOR RWY 12

VOR/DME	GGW	APP CRS	Rwy Idg	5001
113.9		133°	TDZE	2291
Chan 86			Apt Elev	2294

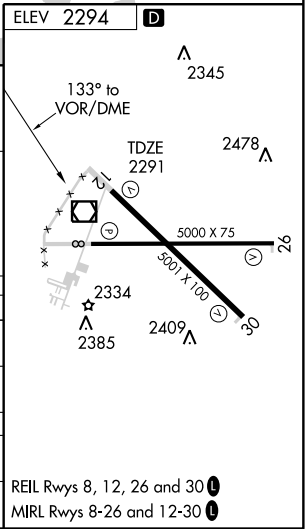
GLASGOW/WOKAL FIELD/GLASGOW INTL (GGW)

A ACTIVATE MIRL Rwy 8-26 and 12-30-CTAF.	MISSED APPROACH: Climb to 4100 in GGW VOR/DME holding pattern.
---	--

ASOS 135.175	SALT LAKE CENTER 126.85 305.2	UNICOM 122.8 (CTAF) 0
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CATEGORY	A	B	C	D
S-12	3140-1 849 (900-1)	3140-1¼ 849 (900-1¼)	3140-2½ 849 (900-2½)	3140-2¾ 849 (900-2¾)
CIRCLING	3140-1 847 (900-1)	3140-1¼ 847 (900-1¼)	3140-2½ 847 (900-2½)	3140-2¾ 847 (900-2¾)
VOR/DME MINIMUMS				
S-12	2700-1 409 (500-1)		2700-1¼ 409 (500-1¼)	
CIRCLING	2780-1 487 (500-1)		2780-1½ 487 (500-1½)	2860-2 567 (600-2)



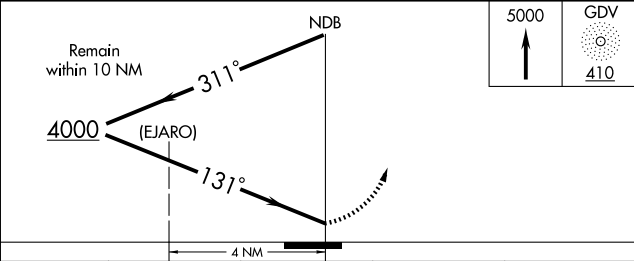
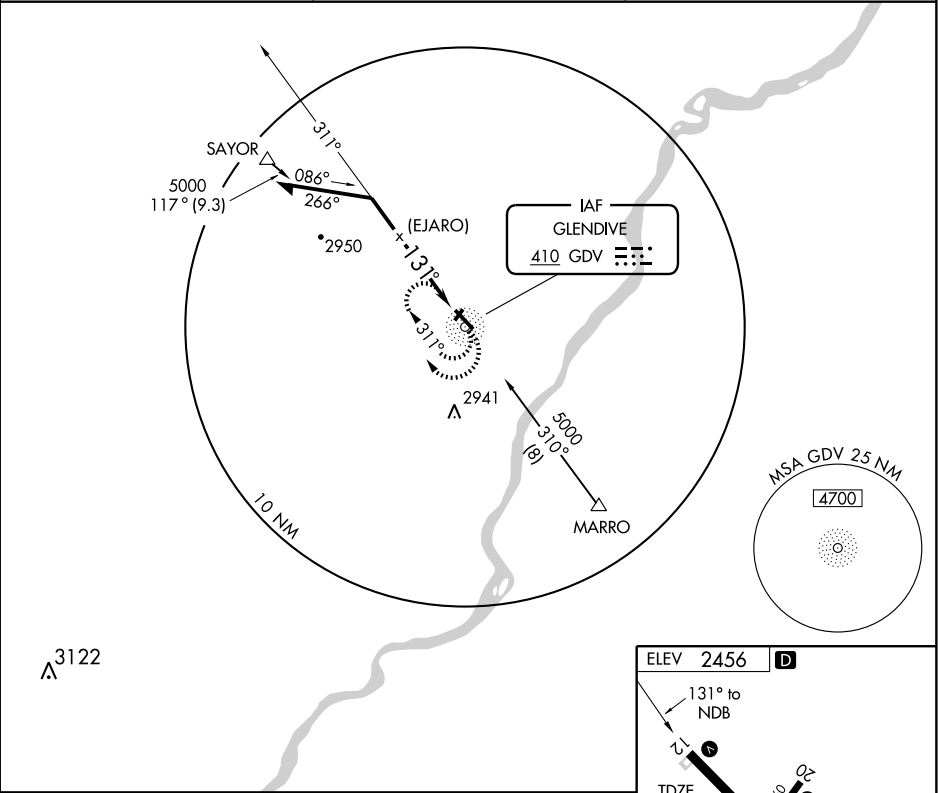
NDB GDV 410	APP CRS 131°	Rwy Idg TDZE Apt Elev	5704 2456 2456
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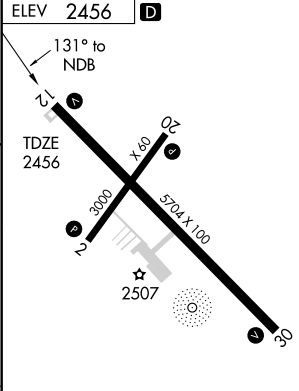
NDB or GPS RWY 12

GLENDIVE/ DAWSON COMMUNITY (GDV)

<div> <div></div> </div>	MISSED APPROACH: Climb to 5000 in GDV NDB holding pattern.
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AWOS-3 135.075	GREAT FALLS RADIO 122.55	UNICOM 122.8 (CTAF)
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ELEV	2456	D			
					
MIRL Rwy 2-20 and 12-30 L					
REIL Rwy 12 and 30					
Knots	60	90	120	150	180
Min:Sec					

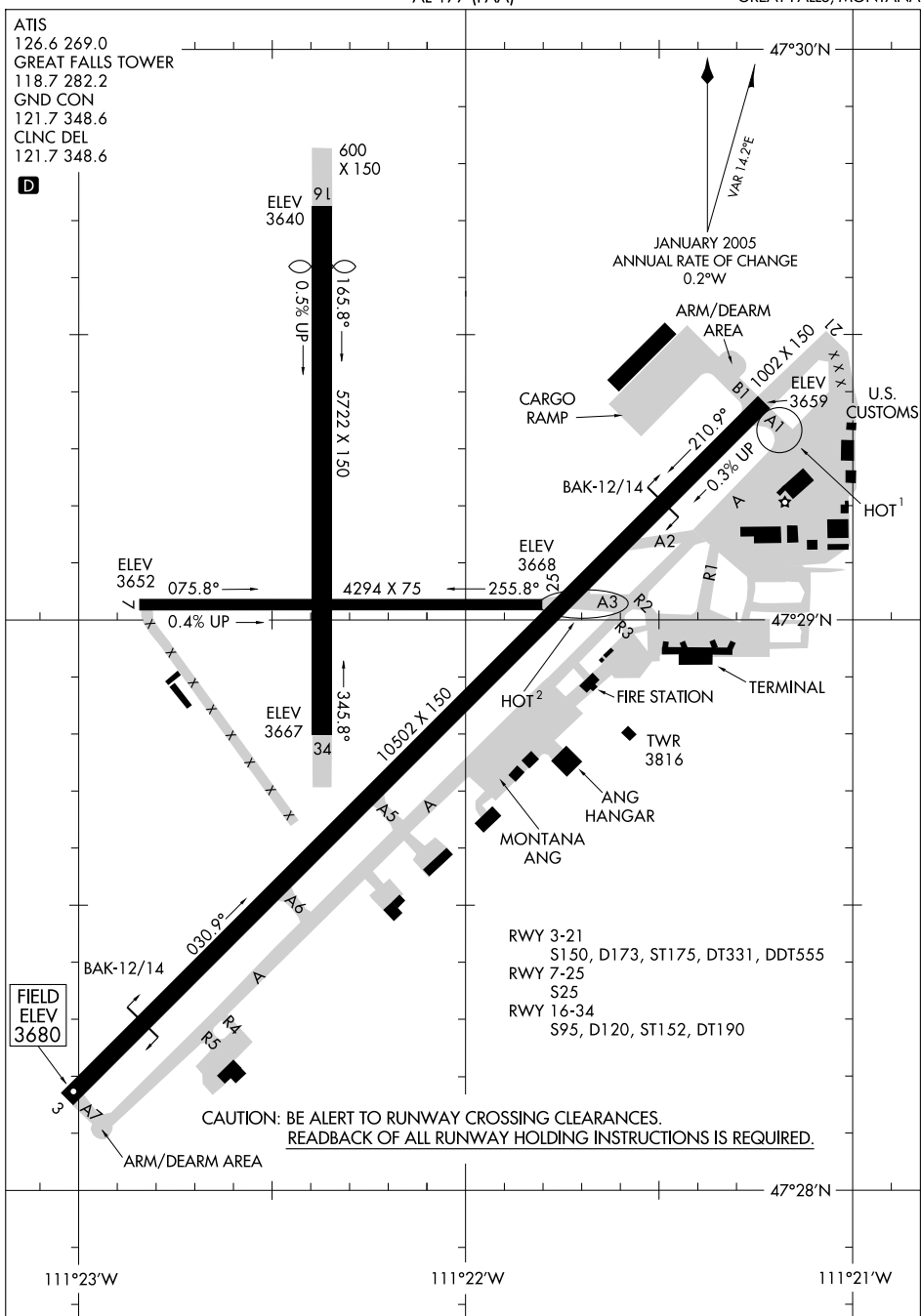
AIRPORT DIAGRAM

AL-177 (FAA)

GREAT FALLS INTL (GTF)
GREAT FALLS, MONTANA

ATIS
126.6 269.0
GREAT FALLS TOWER
118.7 282.2
GND CON
121.7 348.6
CLNC DEL
121.7 348.6

D



NW-1, 08 APR 2010 to 06 MAY 2010

APP CRS
209°

Rwy Idg
TDZE
Apt Elev

10502
3669
3680

GPS RWY 21

GREAT FALLS INTL (GTF¹)

▼

▲ NA

MISSED APPROACH: Climbing right turn to 8000 direct NUPUQ WP and hold.

ATIS

126.6 269.0

GREAT FALLS APP CON

128.6 259.1

GREAT FALLS TOWER

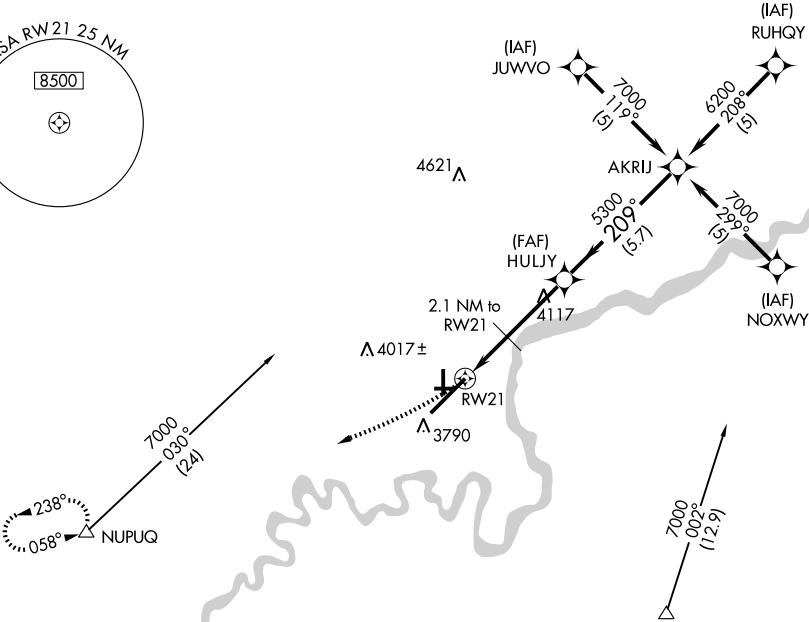
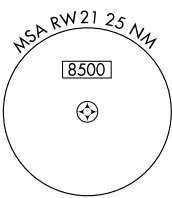
118.7 282.2

GND CON

121.7 348.6

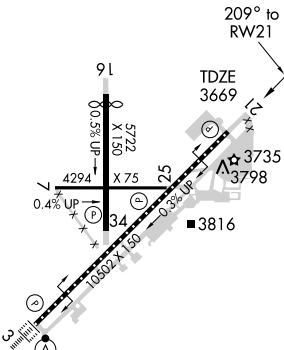
CLNC DEL

121.7 348.6




ELEV 3680

D



TDZ/CL Rwy 3
REIL Rwy 21
MIRL Rwy 7-25
HIRL Rwy 3-21 and 16-34

<div>8000</div> 		<div>NUPUQ</div> <div>△</div>		VGSi and descent angles not coincident.	
<div>RW21</div> <div>1 NM to RW21</div> <div>2.1 NM to RW21</div> <div>4380</div>		<div>HULJY</div> <div>2.99°</div> <div>TCH 59</div> <div>5300</div>		<div>AKRIJ</div> <div>6200</div> <div>209°</div> <div>Procedure Turn NA</div>	
<div>1 NM</div> <div>1.1 NM</div> <div>2.9 NM</div> <div>5.7 NM</div>					
CATEGORY	A		B	C	D
S-21	4040-1 371 (400-1)				4040-1 ¼ 371 (400-1 ¼)
CIRCLING	4120-1 440 (500-1)	4140-1 460 (500-1)	4140-1 ½ 460 (500-1 ½)		4240-2 560 (600-2)

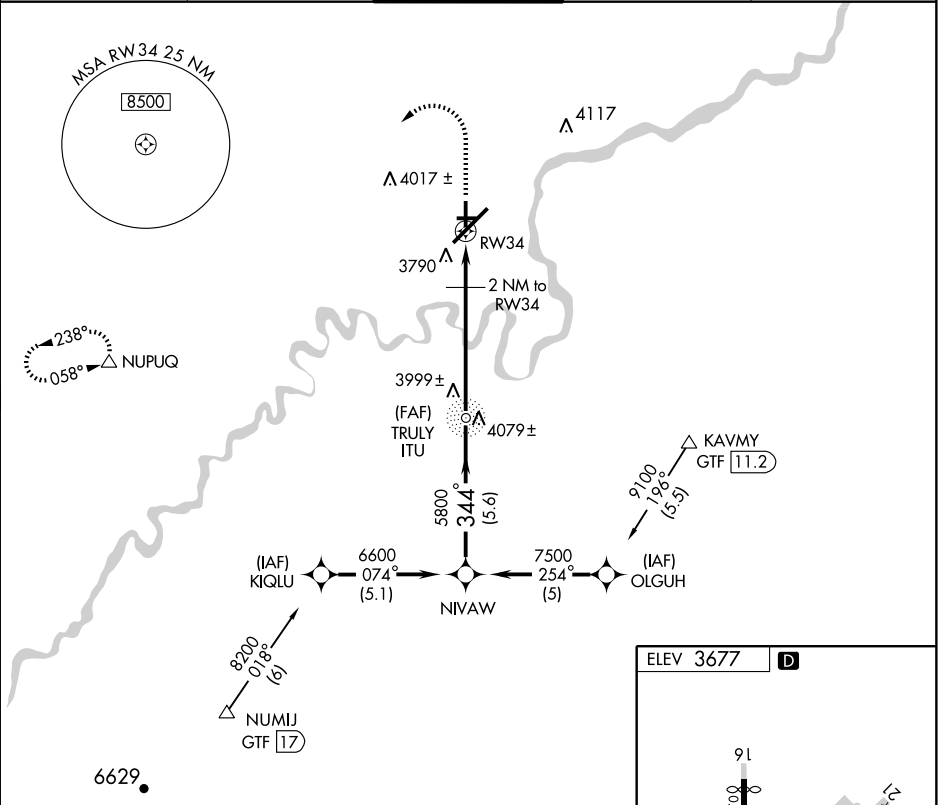
GPS RWY 34
GREAT FALLS INTL (GTF)

APP CRS	Rwy Idg	5070
344°	TDZE	3669
	Apt Elev	3677

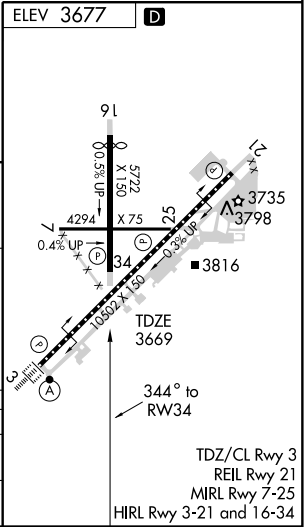
NA

MISSED APPROACH: Climb to 4300, then climbing left turn to 8000 direct NUPUQ WP and hold.

ATIS 126.6 269.0	GREAT FALLS APP CON 128.6 259.1	GREAT FALLS TOWER 118.7 282.2	GND CON 121.7 348.6	CLNC DEL 121.7 348.6
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	NIVAW		NDB		4300	8000	NUPUQ
	6600		5800				
	Procedure Turn NA		2.96° TCH 50		2 NM to RW34		
	5.6 NM		4.6 NM		2 NM		
CATEGORY	A		B		C		D
S-34	4100-1		431 (500-1)		4100-1 1/4		4100-1 1/2
					431 (500-1 1/4)		431 (500-1 1/2)
CIRCLING	4120-1		4140-1		4140-1 1/2		4240-2
	443 (500-1)		463 (500-1)		463 (500-1 1/2)		563 (600-2)



LOC I-SMR 111.3	APCH CRS 029°	Rwy ldg 10,502 TDZE Arpt Elev 3680
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JAL 177 [USAF]

GREAT FALLS INTL (KGTF)

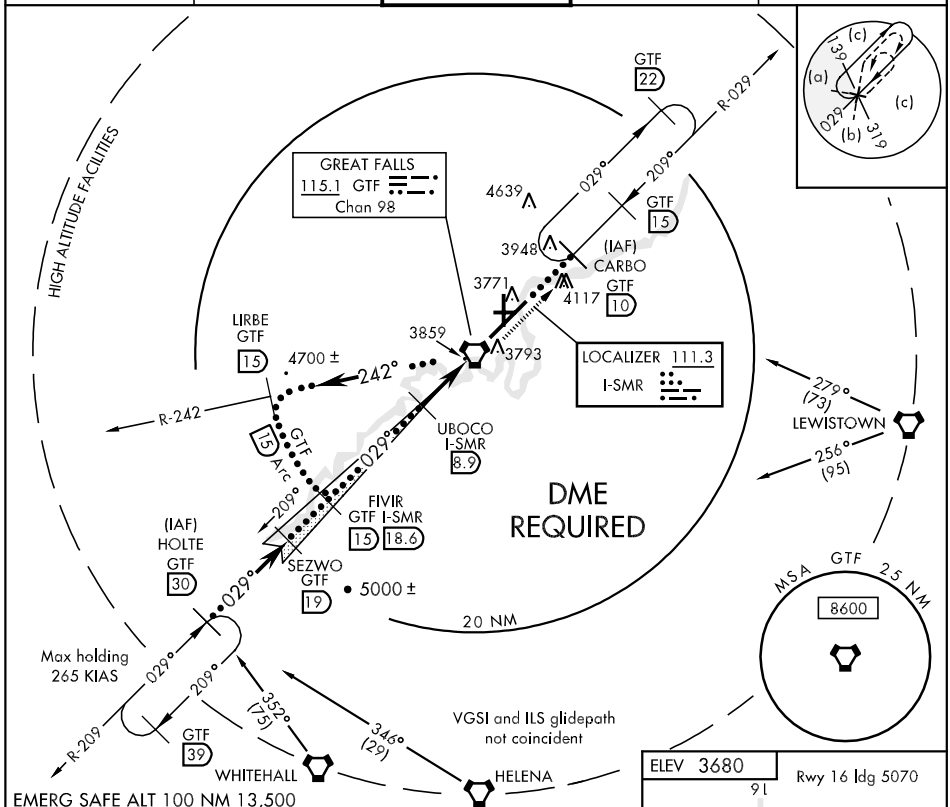
** When ALS inop, increase CAT C RVR to 50 and vis to 1 mile.

ALSF-2

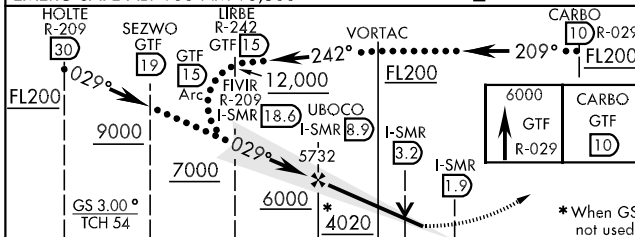


MISSED APPROACH: Climb to 6000 via GTF R-029 to CARBO 10 DME and hold.

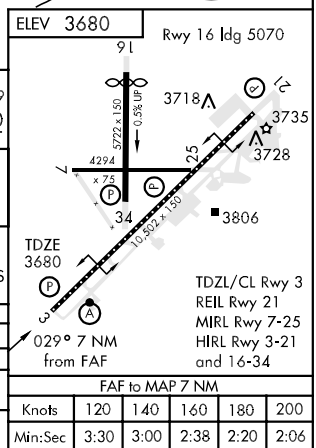
ATIS 126.6 269.0	GREAT FALLS APP CON 128.6 259.1	GREAT FALLS TOWER 118.7 282.2	GND CON 121.7 348.6	CLNC DEL 121.7 348.6
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EMERG SAFE ALT 100 NM 13,500



CATEGORY	C	D	E
S-ILS 3	3880/24	200	(200-1/2)
S-LOC 3 **	4160/40 (500-3/4)	4160/50 (500-1)	4160/60 (500-1 1/4)
CIRCLING	4160-1 1/2 (500-1 1/2)	4240-2 (600-2)	4420-2 1/2 (800-2 1/2)



VORTAC GTF
115.1
 Chan **98**

APCH CRS
029°

Rwy Idg **10,502**
 TDZE **3674**
 Arpt Elev **3680**

JAL 177 [USAF]

GREAT FALLS INTL (KGTF)

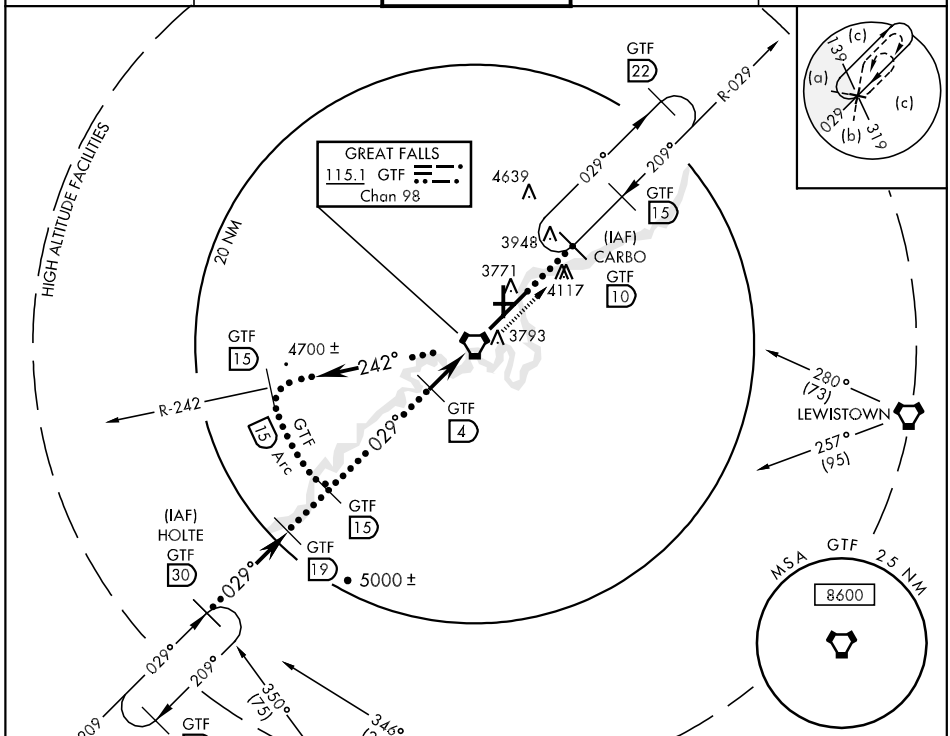
* When ALS inop, increase CAT DE RVR to 60 and vis to 1¼ miles.

ALSF-2

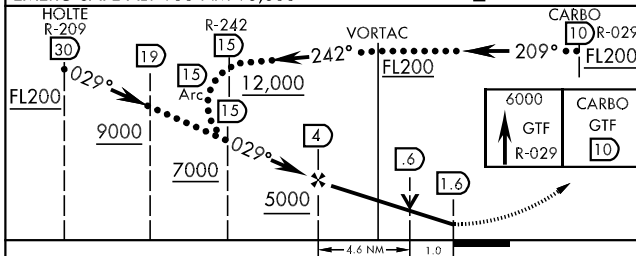


MISSED APPROACH: Climb to 6000 via GTF R-029 to CARBO 10 DME and hold.

ATIS 126.6 269.0	GREAT FALLS APP CON 128.6 259.1	GREAT FALLS TOWER 118.7 282.2	GND CON 121.7 348.6	CLNC DEL 121.7 348.6
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EMERG SAFE ALT 100 NM 13,300



CATEGORY	C	D	E
S-3 *	4060/24 386 (400-½)	4060/50 386 (400-1)	
CIRCLING	4140-1½ 466 (500-1½)	4240-2 566 (600-2)	4420-2¾ 746 (800-2¾)

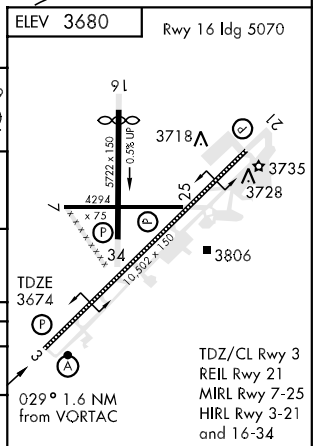
GREAT FALLS, MONTANA

47°29'N-111°22'W

GREAT FALLS INTL (KGTF)

Amdt 2 09099

HI-VOR/DME or TACAN Rwy 3



TDZ/CL Rwy 3
 REIL Rwy 21
 MIRL Rwy 7-25
 HIRL Rwy 3-21
 and 16-34

VORTAC GTF
115.1
 Chan **98**

APCH CRS
209°

Rwy Idg **10,502**
 TDZE **3665**
 Arpt Elev **3680**

JAL-177 [USAF]

GREAT FALLS INTL (KGTF)

MISSED APPROACH: Climbing right turn to 6000 heading 350°,
 intercept GTF 12 DME Arc to ABORN 12 DME and hold.

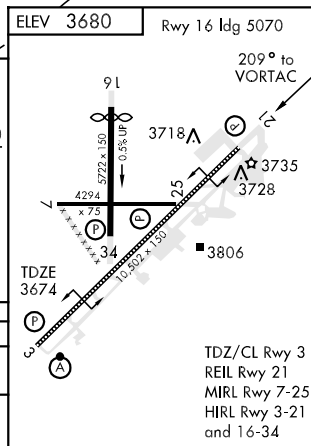
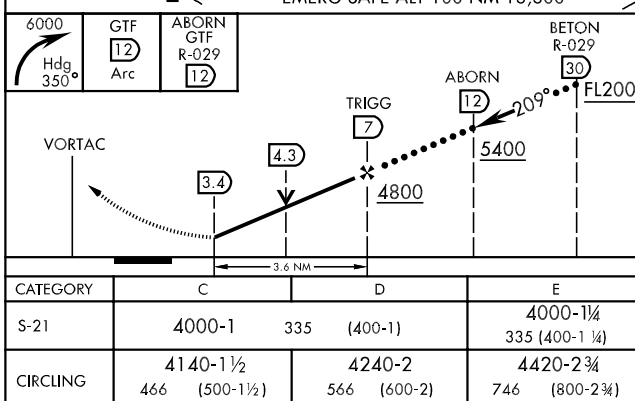
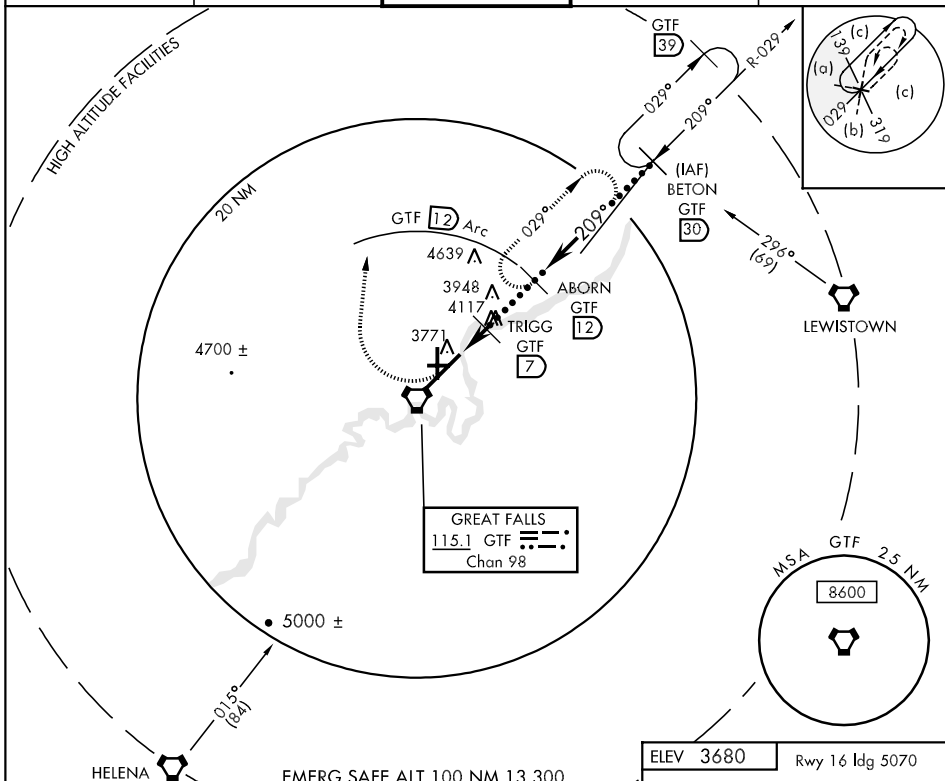
ATIS
126.6 269.0



GREAT FALLS APP CON
128.6 259.1

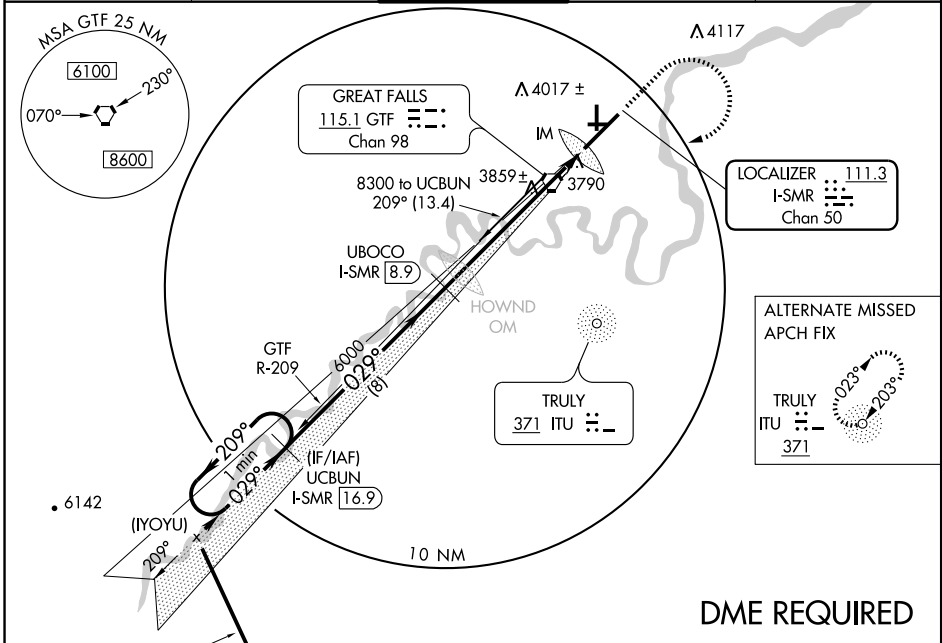
GREAT FALLS TOWER
118.7 282.2

GND CON
121.7 348.6

CLNC DEL
121.7 348.6



		ALSF-2 	MISSED APPROACH: Climb to 5000 then climbing right turn to 8300 direct GTF VORTAC then via GTF VORTAC R-209 to UCBUN/GTF VORTAC 13.4 DME and hold.		
ATIS 126.6 269.0	GREAT FALLS APP CON 128.6 259.1	GREAT FALLS TOWER 118.7 282.2	GND CON 121.7 348.6	CLNC DEL 121.7 348.6	



DME REQUIRED

8300 NoPT to UCBUN
319° (8.5) and LOC (4.5)

(IAF)
HOXEK
GTF **[22.3]**

6629

6257

Use I-SMR DME when on the localizer course.

5000

8300

GTF

GTF

UCBUN

GTF

One Minute Holding Pattern

UCBUN I-SMR **[16.9]**

UBOCO I-SMR **[8.9]**

VGSI and ILS glidepath not coincident.

8300

209°

029°

029°

6000

DH RA 96

IM

3680 MSL

GS 3.00° TCH 54

8 NM

6.9 NM

885'

1099'

CATEGORY	A	B	C	D
S-ILS 3	RA 96/12 100 DA 3780			

CATEGORY II ILS - SPECIAL AIRCREW
& AIRCRAFT CERTIFICATION REQUIRED

TDZ/CL Rwy 3
MIRL Rwy 7-25
REIL Rwy 21
HIRL Rwys 3-21 and 16-34

LOC/DME I-SMR <u>111.3</u> Chan 50	APP CRS 029°	Rwy Idg 10502 TDZE 3680 Apt Elev 3680
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ILS RWY 3 (CAT III)
GREAT FALLS INTL (GTF)



ALSF-2

MISSED APPROACH: Climb to 5000 then climbing right turn to 8300 direct GTF VORTAC then via GTF VORTAC R-209 to UCBUN/GTF VORTAC 13.4 DME and hold.

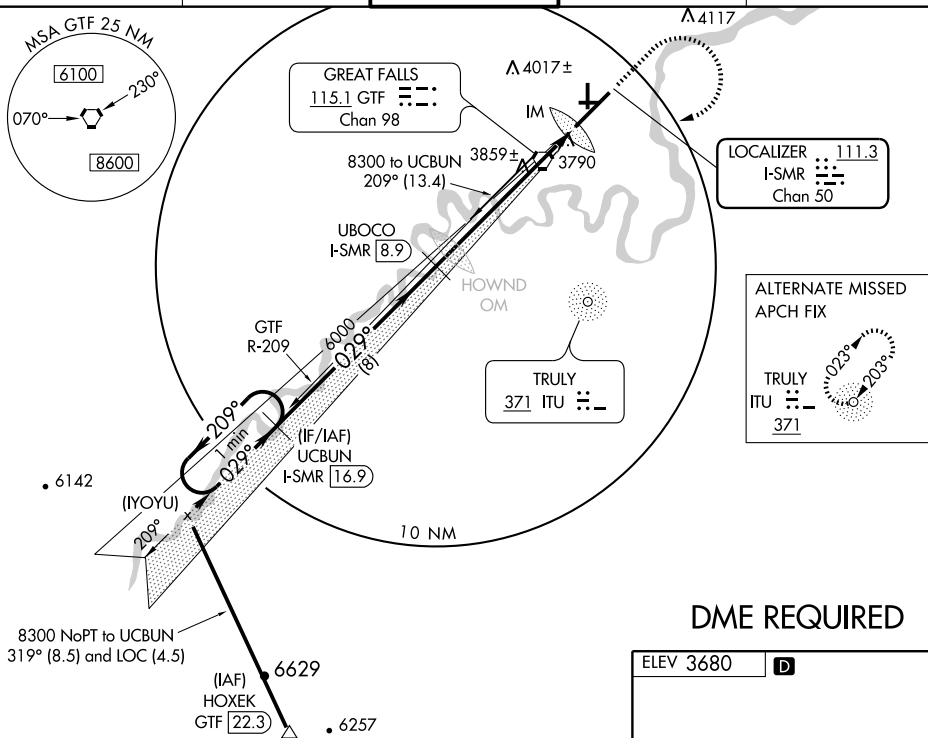
ATIS
126.6 269.0

GREAT FALLS APP CON
128.6 259.1

GREAT FALLS TOWER
118.7 282.2

GND CON
121.7 348.6

CLNC DEL
121.7 348.6



DME REQUIRED

ELEV 3680

D

Use I-SMR DME when on the localizer course.

One Minute Holding Pattern

UCBUN
I-SMR 16.9

5000

8300

GTF

--	--

ICRUM

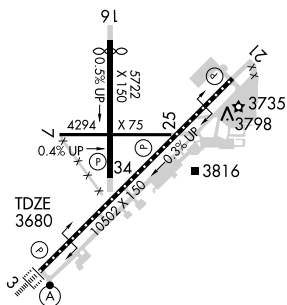
3.4

8300 ← 209°
029° → 029°

GS 3.00°
TCH 54

CATEGORY	A	B	C	D
S-ILS 3		CAT IIIa	RVR 07	
S-ILS 3		CAT IIIb	RVR 06	
S-ILS 3		CAT IIIc	NA	

CATEGORY III ILS - SPECIAL AIRCREW
& AIRCRAFT CERTIFICATION REQUIRED



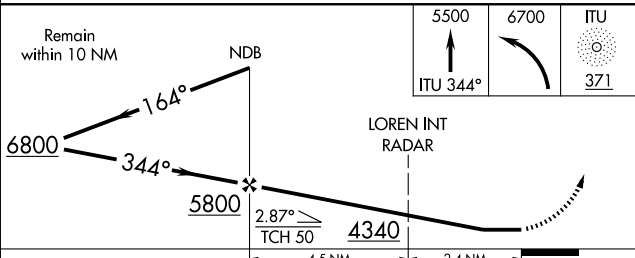
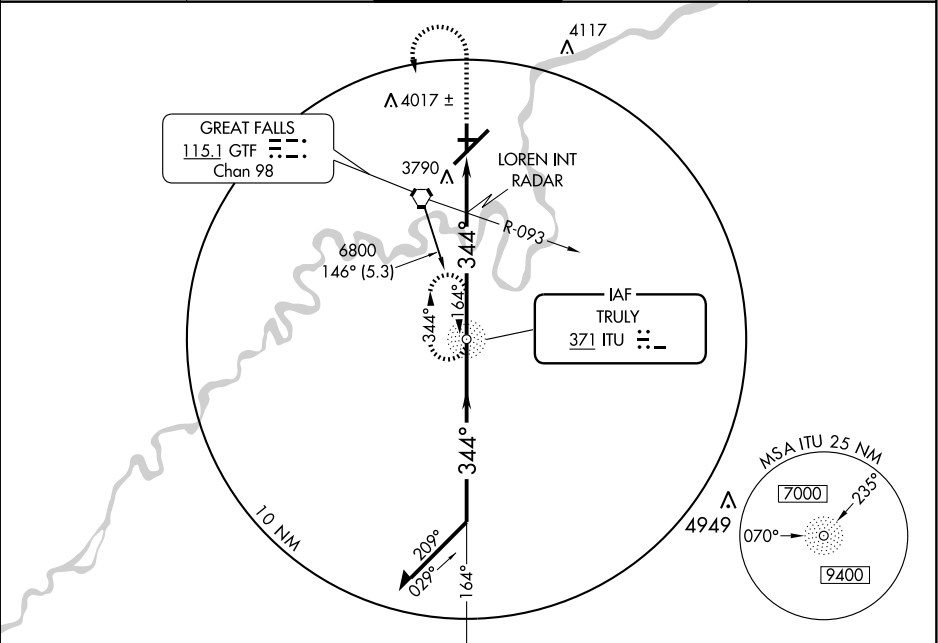
TDZ/CL Rwy 3
MIRL Rwy 7-25
REIL Rwy 21
HIRL Rwy 3-21 and 16-34

▽

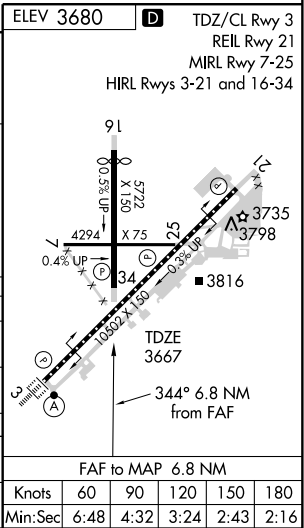
▲

MISSED APPROACH: Climb to 5500 via ITU NDB 344° bearing, then left turn to 6700 direct ITU NDB and hold.

ATIS 126.6 269.0	GREAT FALLS APP CON 128.6 259.1	GREAT FALLS TOWER 118.7 282.2	GND CON 121.7 348.6	CLNC DEL 121.7 348.6
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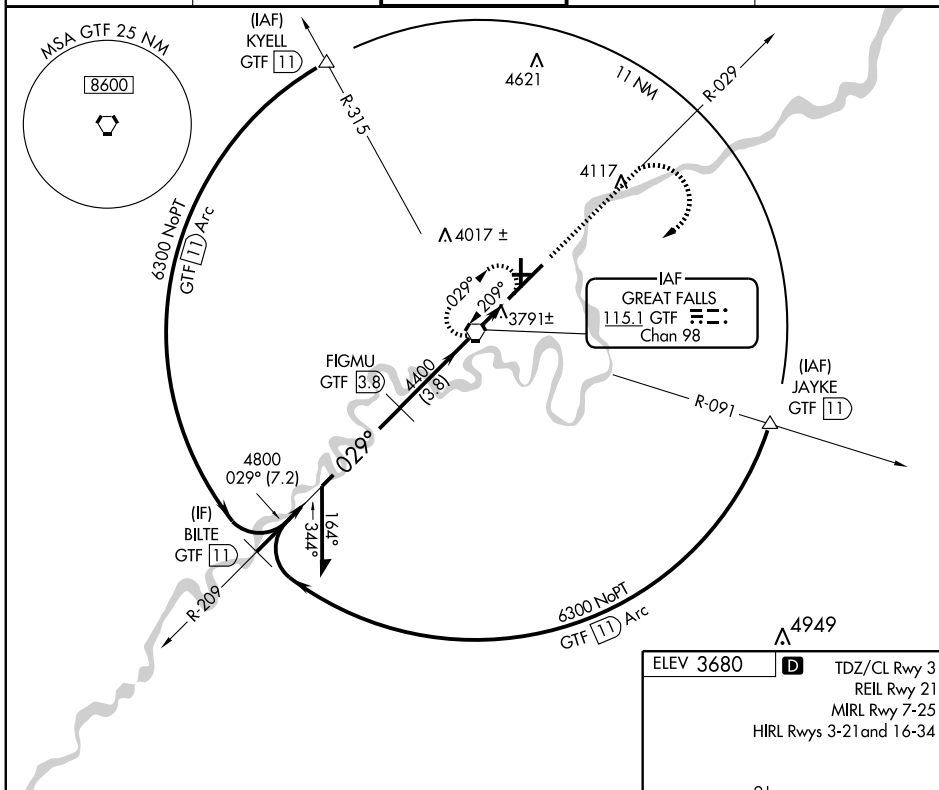


CATEGORY	A	B	C	D
S-34	4340-1	673 (700-1)	4340-2	4340-2¼
CIRCLING	4340-1	660 (700-1)	4340-2	4340-2¼
LOREN INT/RADAR MINIMUMS				
S-34	4120-1	453 (500-1)	4120-1¼	4120-1½
CIRCLING	4120-1	4140-1	4140-1½	4240-2

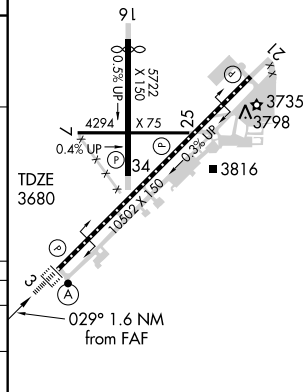


MISSED APPROACH: Climb to 5000 via GTF VORTAC R-029 then climbing right turn to 6300 direct GTF VORTAC and hold, continue climb-in-hold to 6300.

CLNC DEL
121.7 348.6



CATEGORY	A	B	C	D
S-3	4060/24 380 (400-½)			4060/50 380 (400-1)
CIRCLING	4120-1 440 (500-1)	4140-1 460 (500-1)	4140-1½ 460 (500-1½)	4240-2 560 (600-2)

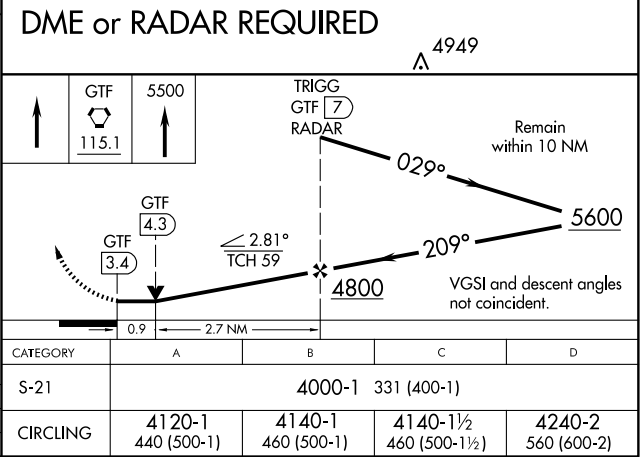
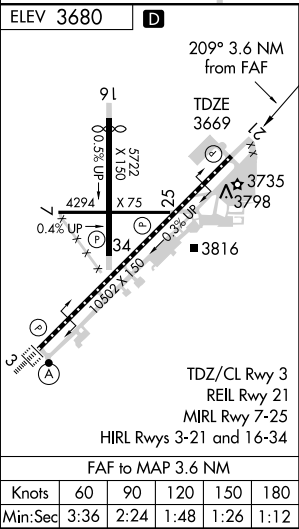
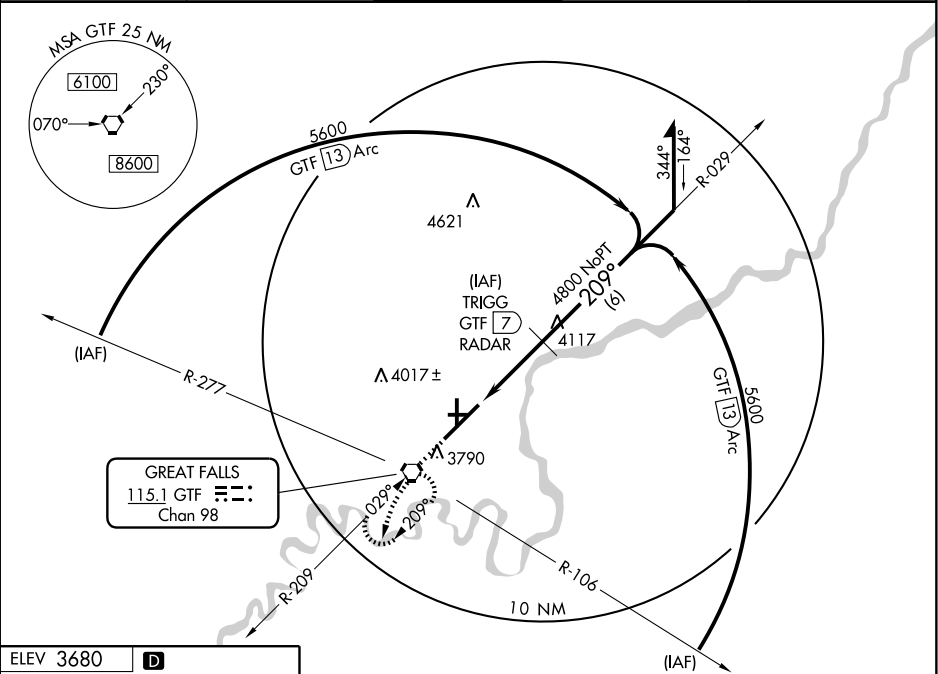


VORTAC GTF	APP CRS	Rwy Idg	10502
115.1	209°	TDZE	3669
Chan 98		Apt Elev	3680

VOR RWY 21
GREAT FALLS INTL (GTF)

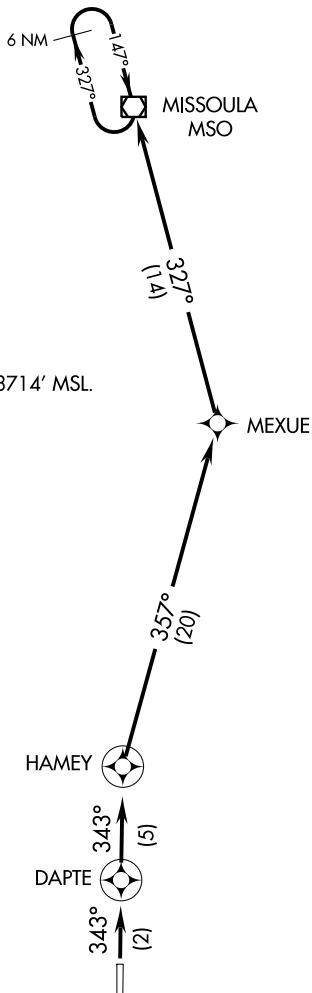
	MISSED APPROACH: Climb direct to GTF VORTAC continue climb to 5500 in GTF VORTAC holding pattern.
---	---

ATIS 126.6 269.0	GREAT FALLS APP CON 128.6 259.1	GREAT FALLS TOWER 118.7 282.2	GND CON 121.7 348.6	CLNC DEL 121.7 348.6
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HAMEY ONE DEPARTURE (RNAV) (OBSTACLE)

SPOKANE DEP CON
124.9 298.95
SALT LAKE CITY CENTER
133.4 285.4

TAKE-OFF MINIMUMS

Rwy 16: NA, Obstacles.

Rwy 34: Standard.

TAKE-OFF OBSTACLES

Rwy 34: tree 1044' from DER,
258' right of centerline, 80' AGL/3714' MSL.

Rwy 16: NA, Obstacles.

NOTE: 1. GPS Required.
2. RNAV 1

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 16: Not authorized, Obstacles.

TAKE-OFF RWY 34: Climb to 9000 direct DAPTE WP, direct HAMEY WP, then via depicted route to MSO VOR/DME, Thence....

....all aircraft climb in MSO VOR/DME holding pattern (hold NW, RT, 147° inbound) to cross MSO VOR/DME at or above MEA/MCA for direction of flight before proceeding on course.

APP CRS 163°	Rwy Idg TDZE Apt Elev	N/A N/A 3642
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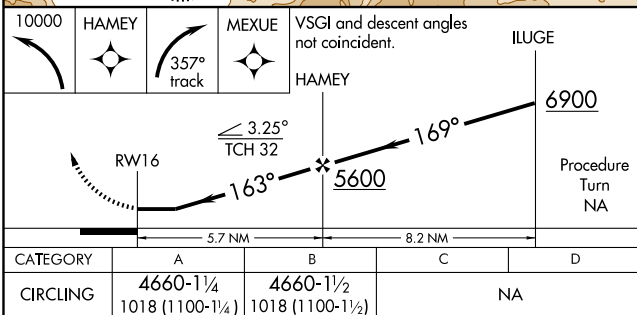
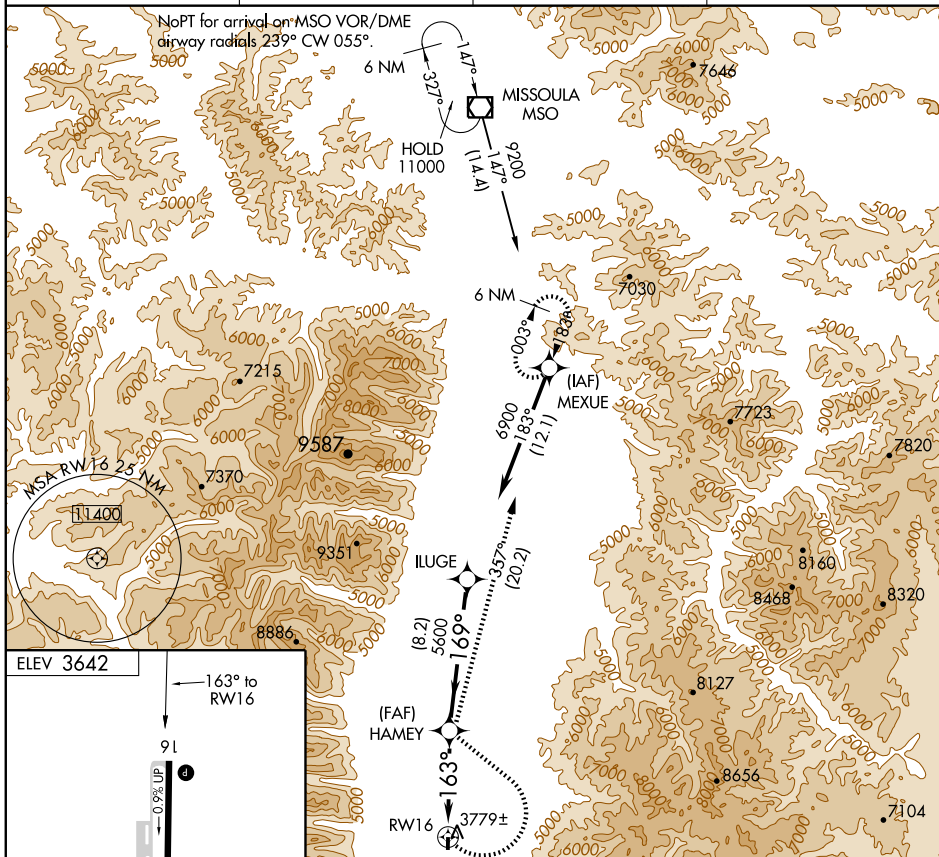
RNAV (GPS)-A

HAMILTON/ RAVALLI COUNTY (6S5)

▼ DME/DME RNP-0.3 NA.
▲ NA When local altimeter setting not received, procedure NA.
 Procedure NA at night.

MISSED APPROACH: Climbing left turn to 10000 direct HAMEY WP and right turn via 357° track to MEXUE WP and hold.

AWOS-A 119.825	SPOKANE APP CON* 124.9 298.95	SALT LAKE CITY CENTER 133.4 285.4	UNICOM 122.8 (CTAF) 0
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APP CRS	Rwy Idg	N/A
001°	TDZE	N/A
	Apt Elev	3642

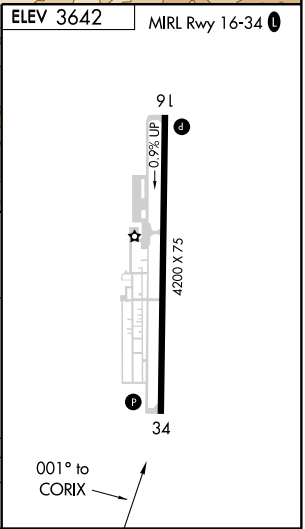
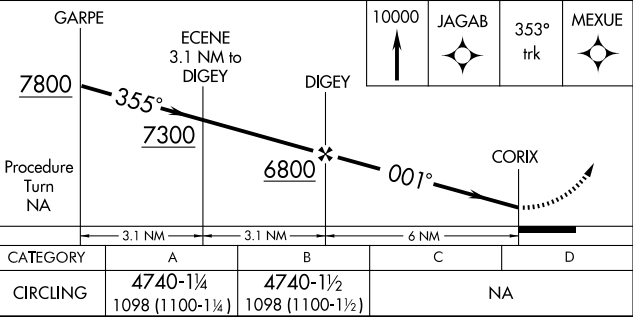
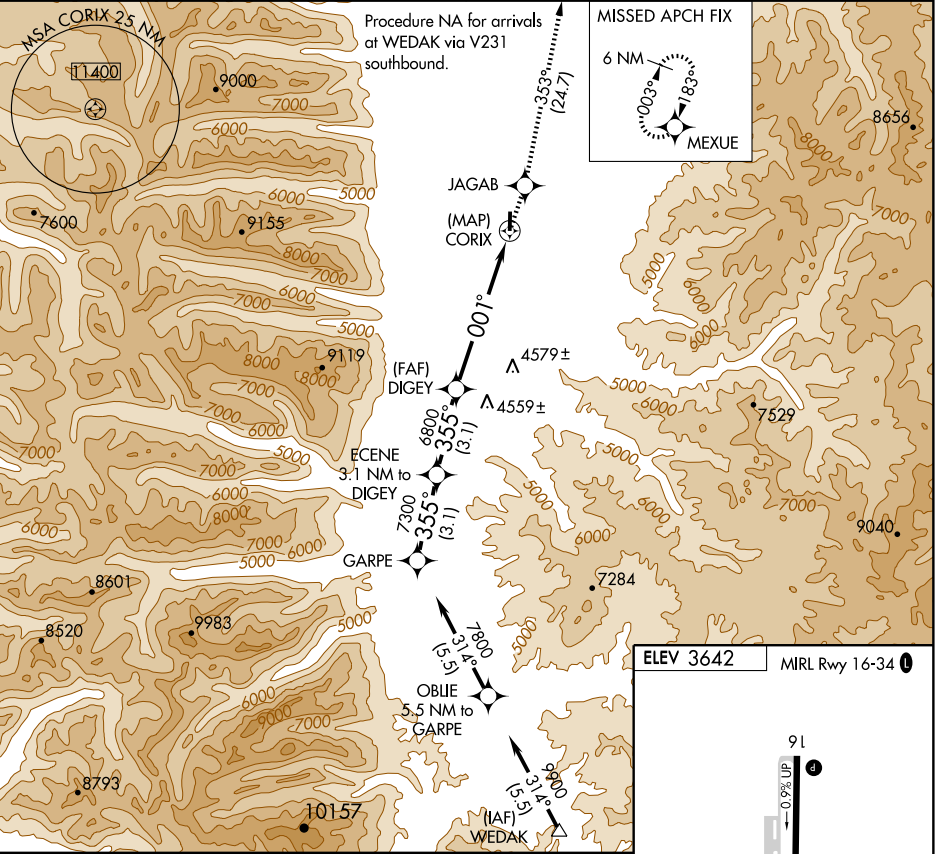
RNAV (GPS)-B

HAMILTON/ RAVALLI COUNTY (6S5)

▼ DME/DME RNP-0.3 NA.
▲ NA When local altimeter setting not received, procedure NA.
Procedure NA at night.

MISSED APPROACH: Climb to 10000 direct JAGAB WP and via 353° track to MEXUE WP and hold.

AWOS-A 119.825	SPOKANE APP CON★ 124.9 298.95	SALT LAKE CITY CENTER 132.4 338.3	UNICOM 122.8 (CTAF) 0
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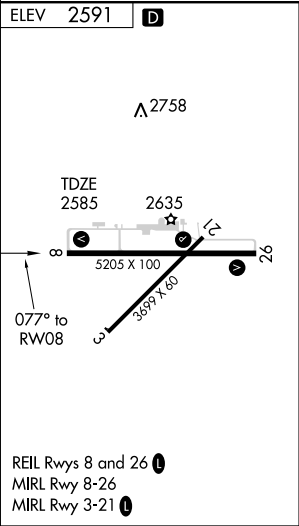
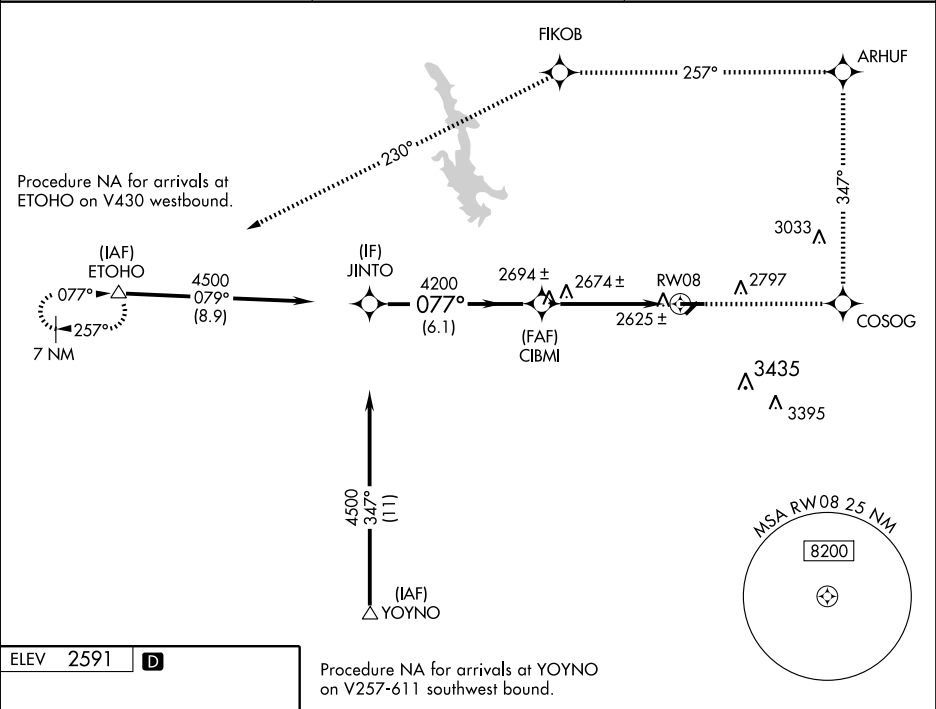
NW-1. 08 APR 2010 to 06 MAY 2010

WAAS CH 99316 W08A	APP CRS 077°	Rwy Idg TDZE Apt Elev	5205 2585 2591
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RNAV (GPS) RWY 8
HAVRE CITY-COUNTY(HVR)

⚠ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -20°C (-4°F) or above 43°C (109°F). DME/DME RNP- 0.3 NA.	MISSED APPROACH: Climb to 8000 direct COSOG and left turn via track 347° to ARHUF and left turn via track 257° to FIKOB and via track 230° to ETOHO and hold.
--	--

ASOS 135.225	GREAT FALLS RADIO 123.65	UNICOM 122.8 (CTAF) 0
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Procedure Turn NA	8000	COSOG	ARHUF	FIKOB	ETOHO
JINTO	↑	✧	trk 347°	trk 257°	trk 230°
4500					
		CIBMI			
GS 3.00° TCH 40					
	6.1 NM	3.6 NM	1.3 NM		
CATEGORY	A	B	C	D	
LPV DA	2835-1 250 (300-1)				
LNAV/VNAV DA	2906-1¼ 321 (400-1¼)				
LNAV MDA	3020-1	435 (500-1)	3020-1¼ 435 (500-1¼)	3020-1½ 435 (500-1½)	
CIRCLING	3060-1 469 (500-1)	3100-1 509 (600-1)	3100-1½ 509 (600-1½)	3160-2 569 (600-2)	

NW-1. 08 APR 2010 to 06 MAY 2010

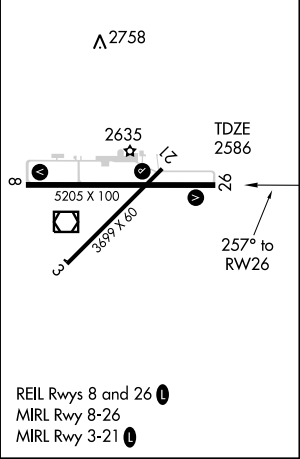
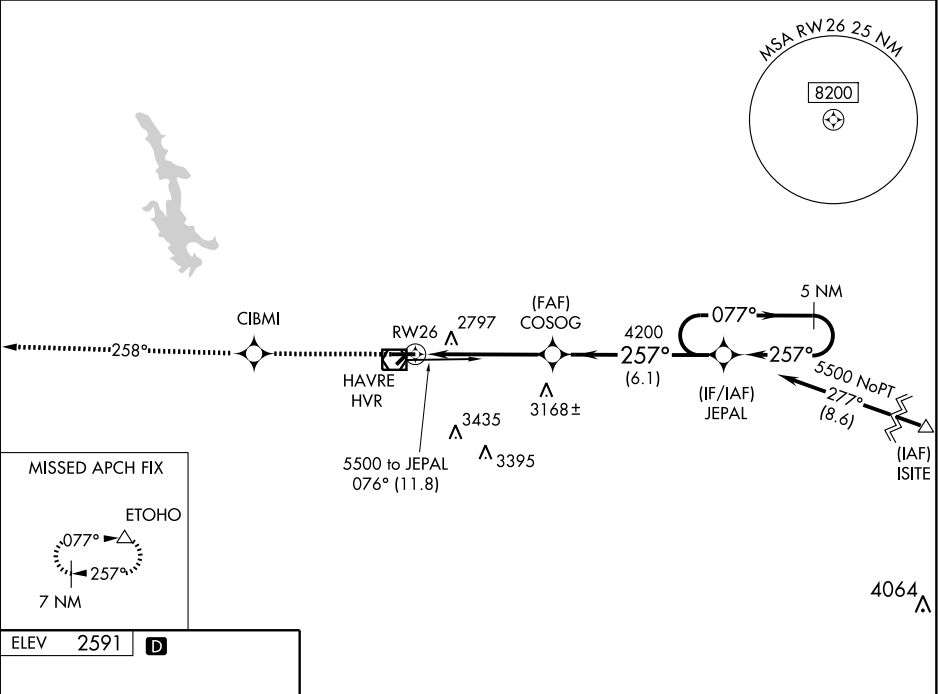
WAAS CH 48816 W26A	APP CRS 257°	Rwy Idg TDZE Apt Elev	5205 2586 2591
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RNAV (GPS) RWY 26
HAVRE CITY-COUNTY (HVR)

T When VGSI inoperative, procedure NA at night. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -20°C (-4°F) or above 43°C (109°F). DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA.

MISSED APPROACH: Climb to 8000 direct CIBMI and via track 258° to ETOHO and hold, continue climb-in-hold to 8000.

ASOS 135.225	GREAT FALLS RADIO 123.65	UNICOM 122.8 (CTAF) 0
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8000	CIBMI	trk 258°	ETOHO	5 NM Holding Pattern
↑	✦		△	
			COSOG	JEPAL
			RW26	257° 4200
			4.9 NM	6.1 NM
			257°	077° 5500
				GS 3.00° TCH 38
CATEGORY	A	B	C	D
LPV DA	2836-1 250 (300-1)			
LNAV/VNAV DA	3097-1¾ 511 (600-1¾)			
LNAV MDA	3060-1	474 (500-1)	3060-1¼ 474 (500-1¼)	3060-1½ 474 (500-1½)
CIRCLING	3060-1 469 (500-1)	3100-1 509 (600-1)	3100-1½ 509 (600-1½)	3160-2 569 (600-2)

VOR/DME HVR
111.8
Chan **55**


APP CRS
094°

Rwy Idg
TDZE
Apt Elev

5205
2585
2591

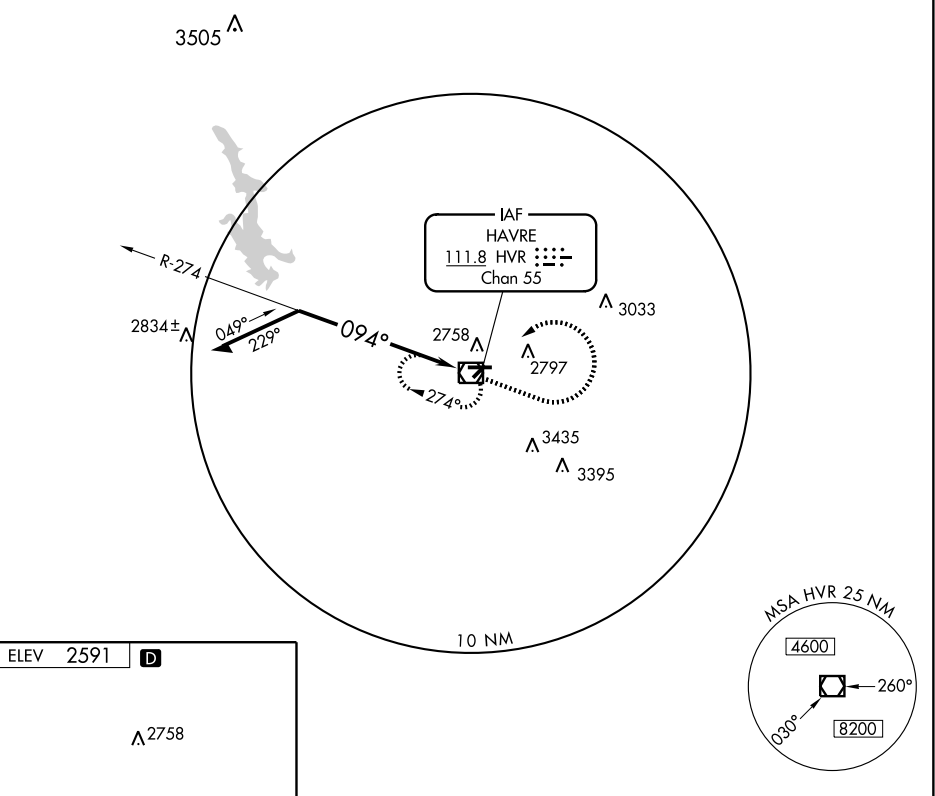
VOR RWY 8


HAVRE CITY-COUNTY(HVR)





MISSED APPROACH: Climb to 3500 then climbing left turn to 8000 direct HVR VOR/DME and hold, continue climb-in-hold to 8000.


ASOS 135.225	GREAT FALLS RADIO 123.65	UNICOM 122.8 (CTAF) 
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



ELEV 2591 


 2758


 TDZE 2585

 2635


 5205 X 100

 3699 X 60


 094° to VOR/DME


REIL Rwy 8 and 26 


MIRL Rwy 8-26


MIRL Rwy 3-21 


Remain within 10 NM


 VOR/DME 4900


 HVR 1.8

 1.6 NM

 3500

 8000

 HVR

 111.8

CATEGORY	A	B	C	D
S-8	3140-1 555 (600-1)		3140-1½ 555 (600-1½)	3140-1¾ 555 (600-1¾)
CIRCLING	3140-1 549 (600-1)		3140-1½ 549 (600-1½)	3160-2 569 (600-2)

VOR/DME HVR

111.8

Chan 55

APP CRS

244°

Rwy Idg
TDZE
Apt Elev

5205
2586
2591

VOR RWY 26

HAVRE CITY-COUNTY (HVR)

▼

▲

Visibility reduction by helicopters NA.

MISSED APPROACH: Climb to 4500 then climbing right turn to 8000 direct HVR/DME and hold, continue climb-in-hold to 8000.

ASOS

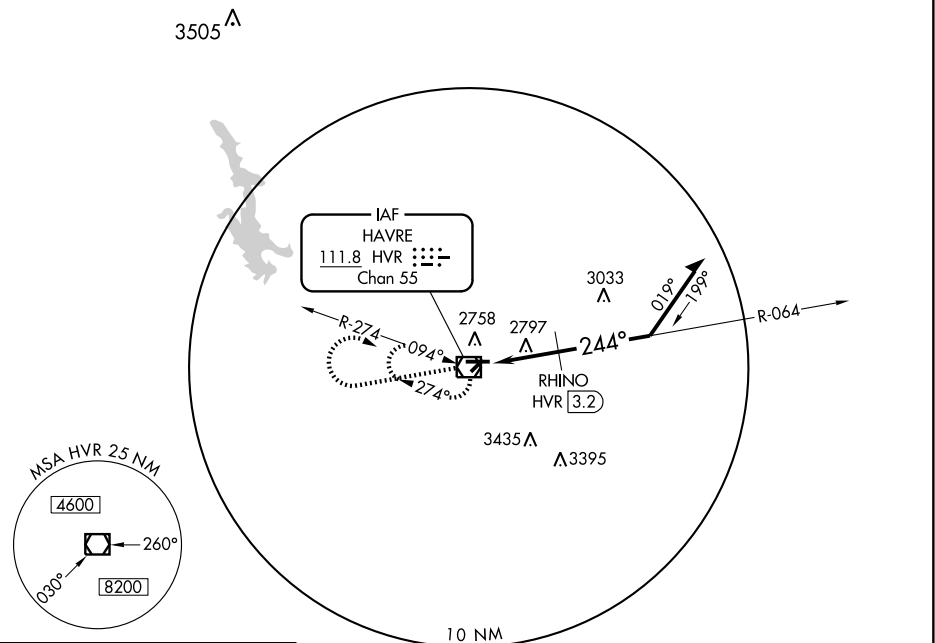
135.225

GREAT FALLS RADIO

123.65

UNICOM

122.8 (CTAF) 0



ELEV 2591

D

▲ 2758

2635

TDZE 2586

5205 X 100

369 X 60

244° to VOR/DME

REIL Rwy 8 and 26

MIRL Rwy 8-26

MIRL Rwy 3-21

4500

8000

HVR

VOR/DME

10000

111.8

064°

244°

4500

3480

3.2 NM

3.34°

TCH 38

Remain within 10 NM

VGSI and descent angles not coincident.

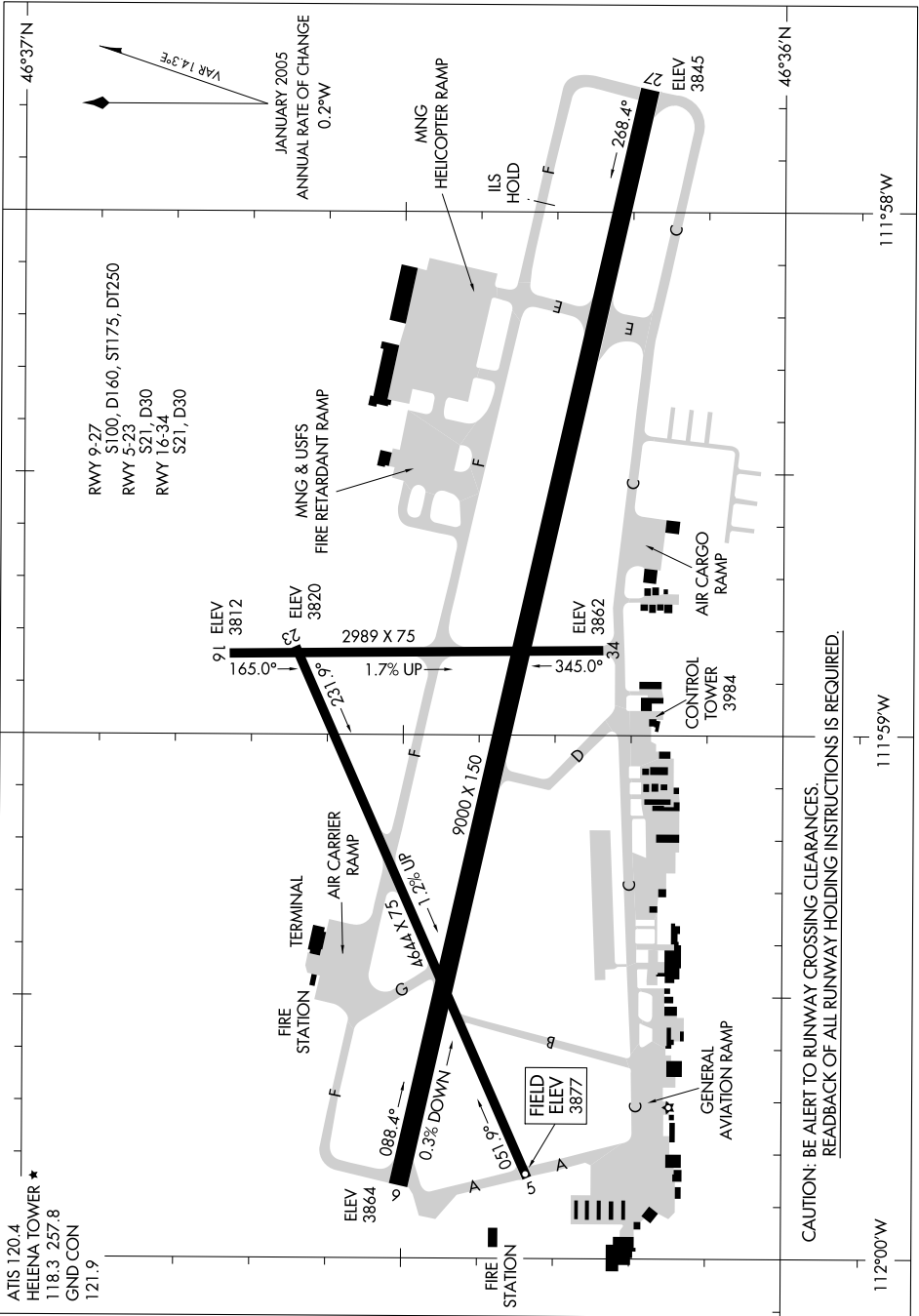
CATEGORY	A	B	C	D
S-26	3480-1¼	894 (900-1¼)	3480-2¾ 894 (900-2¾)	3480-3 894 (900-3)
CIRCLING	3480-1¼	889 (900-1¼)	3480-2¾ 889 (900-2¾)	3480-3 889 (900-3)
RHINO FIX MINIMUMS				
S-26	3060-1	474 (500-1)	3060-1¼ 474 (500-1¼)	3060-1½ 474 (500-1½)
CIRCLING	3060-1 469 (500-1)	3100-1 509 (600-1)	3100-1½ 509 (600-1½)	3160-2 569 (600-2)

NW-1, 08 APR 2010 to 06 MAY 2010

AIRPORT DIAGRAM

AL-192 (FAA)

HELENA RGNL (HNL)
HELENA, MONTANA



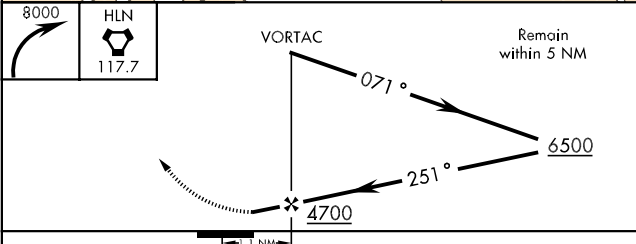
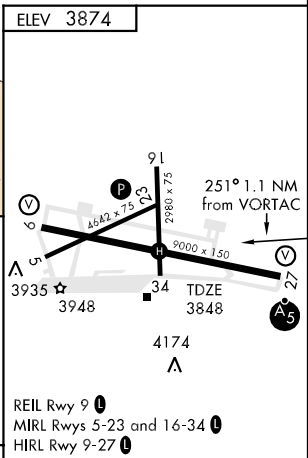
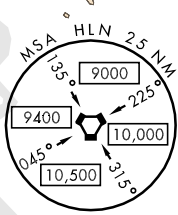
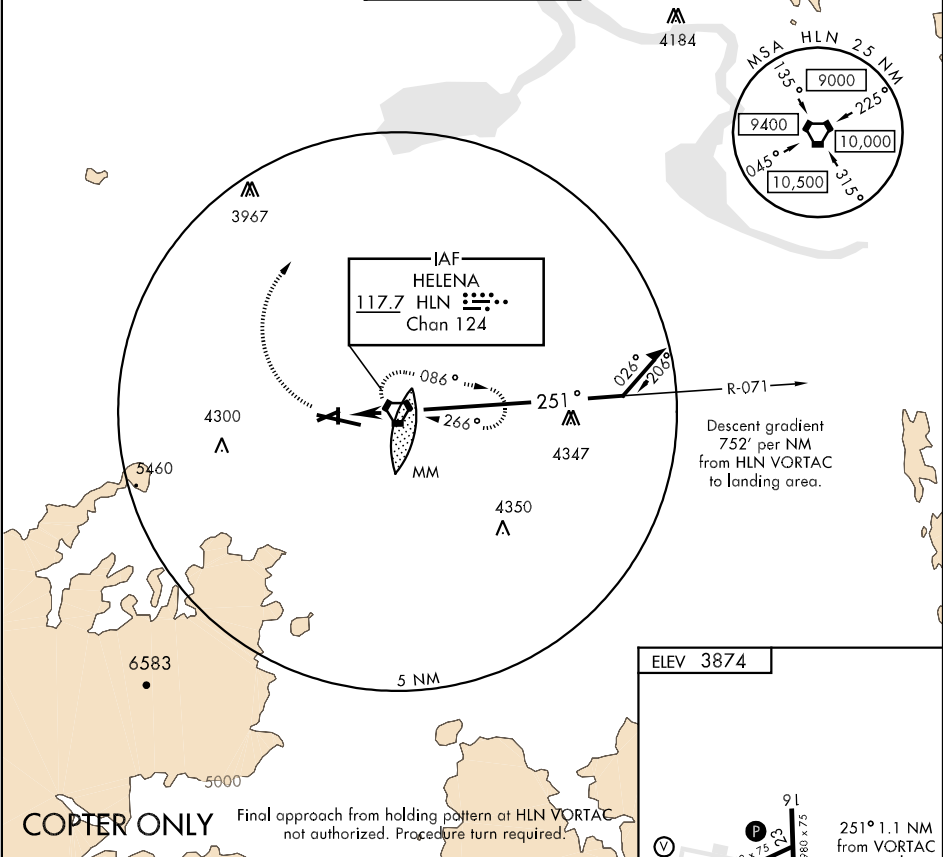
VORTAC HLN 117.7 Chan 124	APCH CRS 251°	Rwy Idg TDZE Arpt Elev 3874	N/A 3848 3874
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AL-192 [USA]

HELENA REGIONAL (KHLN)

<p>NA when tower clsd.</p>		<p>MISSED APPROACH: Climbing right turn to 8000 direct HLN VORTAC and hold.</p>	
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<p>ATIS ★ 120.4</p>	<p>HELENA APP CON 119.5 229.4</p>	<p>HELENA TOWER ★ 118.3 (CTAF) 0 257.8</p>	<p>GND CON 121.9</p>	<p>UNICOM 122.95</p>
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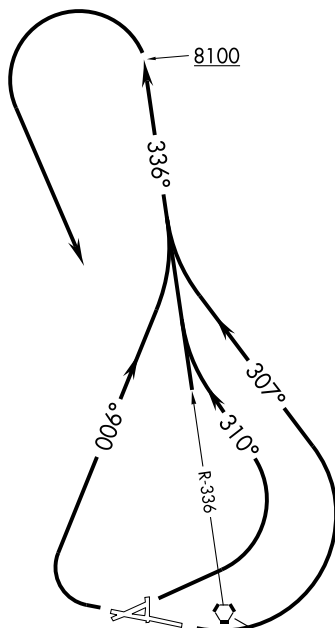
CATEGORY	COPTER	FAF to MAP 1.1 NM					
		Knots	45	60	75	90	105
		Min:Sec	1:28	1:06	0:53	0:44	0:37
H-251 °	4260- ½ 412 (400-½)						

HELENA THREE DEPARTURE

SL-192 (FAA)

HELENA RGNL (HLN)
HELENA, MONTANA

HELENA TOWER ★
118.3 (CTAF) 257.8
HELENA DEP CON ★
119.5 229.4
SALT LAKE CENTER
133.4 285.4

TAKE-OFF MINIMUMS

Rwy 5: Standard with minimum climb of 250 feet per NM to 8100.
Rwy 9: Standard with minimum climb of 240 feet per NM to 8100.
Rwys 16, 23: NA- obstacles.
Rwy 27: Standard with minimum climb of 390 feet per NM to 8100.
Rwy 34: NA- ATC.

HELENA
117.7 HLN
Chan 124
N46° 36.41' - W111° 57.21'
L-13, H-1

TAKE-OFF OBSTACLE NOTES

Rwy 5: Ground beginning 5' from DER, 495' right of centerline, up to 3826' MSL.
Fence beginning 423' from DER, 331' right of centerline, up to 10' AGL/ 3832' MSL.
Rwy 27: Building 1593' from DER, 731' left of centerline, 58' AGL/ 6385' MSL.
Ground beginning 101' from DER, 346' left of centerline, up to 3871' MSL.
Tree 1567' from DER, 616' left of centerline, 47' AGL/ 3906' MSL.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 5: Climbing left turn heading 310° to intercept HLN VORTAC R-336 to 8100', then climbing left turn to 9000' via HLN VORTAC R-336 to HLN VORTAC.

TAKE-OFF RUNWAY 9: Climbing left turn heading 307° to intercept HLN VORTAC R-336 to 8100', then climbing left turn to 9000' via HLN VORTAC R-336 to HLN VORTAC.

TAKE-OFF RUNWAY 27: Climbing right turn heading 006° to intercept HLN VORTAC R-336 to 8100', then climbing left turn to 9000' via HLN VORTAC R-336 to HLN VORTAC.

LOC I-HLN <u>110.1</u>	APP CRS 267°	Rwy Idg TDZE Apt Elev	9000 3852 3877
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ILS or LOC Y RWY 27

HELENA RGNI (HLN)

- T** Circling NA for Cats. D and E south of Rwy 9-27. Inoperative table does not apply to S-LOC 27 Cats. A-B. For inoperative MALSR, increase S-ILS 27 all Cats. visibility to 2 miles, S-LOC 27 Cat. E visibility to 3 miles, FERRI fix minimums: S-LOC 27 Cat E visibility to 2 1/2 miles. DME arc to final approach required for turbojet aircraft. Holding at HAU NDB authorized for Category A and B aircraft only.

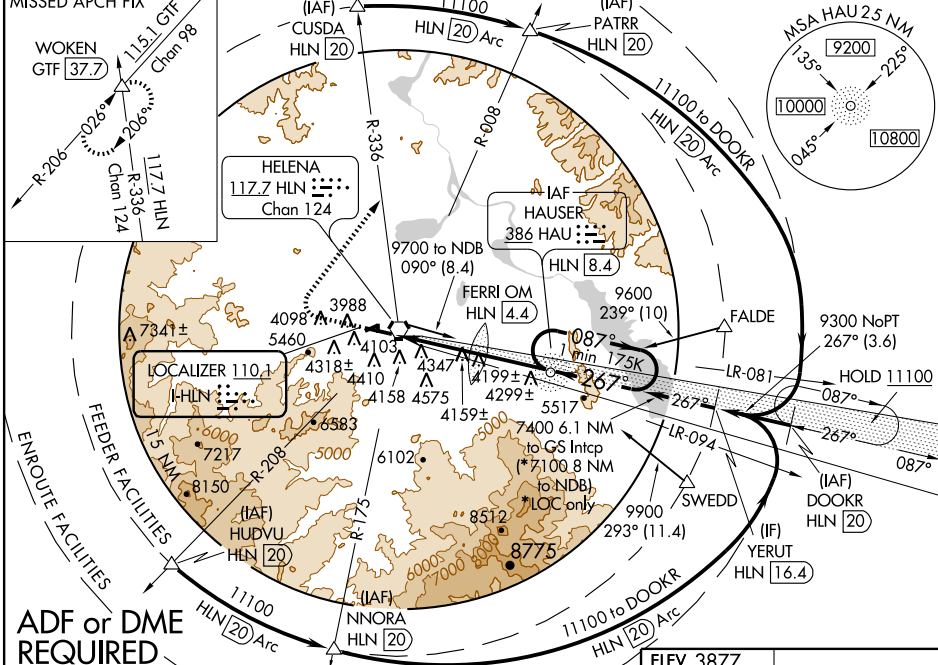
MALSR



MISSED APPROACH: Climb to 4700 then climbing right turn to 9000 via heading 021° and HLN VORTAC R-336 to WOKEN INT and hold.

ATIS 120.4	HELENA APP CON ★ 119.5 229.4	HELENA TOWER ★ 118.3 (CTAF) 0 257.8	GND CON 121.9	UNICOM 122.95
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MISSED APCH FIX



ADF or DME
REQUIRED

4700 9000 HLN R-336 WOKEN △ FERRI OM HLN 4.4 NDB HLN 8.4 One Minute Holding Pattern

*LOC only

021°

6742

087°

267°

7400

5426

5400*

7100*

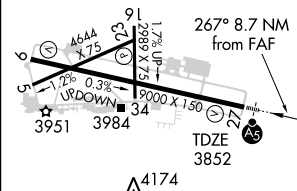
7400

GS 3.00° TCH 55°

4.7 NM 4 NM

CATEGORY	A	B	C	D	E
S-ILS 27	4402-1½ 550 (600-1½)				
S-LOC 27	5400-1¼ 1548 (1600-1¼)	5400-1½ 1548 (1600-1½)	5400-2½ 1548 (1600-2½)		
CIRCLING	5400-1¼ 1523 (1600-1¼)	5400-1½ 1523 (1600-1½)	5400-3 1523 (1600-3)		
FERRI FIX MINIMUMS*					
S-LOC 27	4560-½ 708 (700-½)		4560-1½ 708 (700-1½)	4560-1¾ 708 (700-1¾)	4560-2 708 (700-2)
CIRCLING	4640-1 763 (800-1)		4740-2½ 863 (900-2½)	4740-2¾ 863 (900-2¾)	4840-3 963 (1000-3)

ELEV 3877



REIL Rwy 9 **L**
MIRL Rwy 5-23 and 16-34 **L**
HIRL Rwy 9-27 **L**

FAF to MAP 8.7 NM

Knots	60	90	120	150	180
Min:Sec	8:42	5:48	4:21	3:29	2:54

LOC I-HLN <u>110.1</u>	APP CRS 267°	Rwy Idg 9000 TDZE 3852 Apt Elev 3877
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ILS or LOC Z RWY 27

HELENA RGNL (HLN)

- T** Circling NA for Cats. D and E south of Rwy 9-27. DME Arc to final approach required for turbojet aircraft. Holding at HAU NDB authorized for Category A and B aircraft only. Inoperative table does not apply to S-LOC 27 Cats. A-B. For inoperative MALSR, increase S-LOC 27 Cat. E visibility to 3 miles, FERRI fix minimums: S-LOC 27 Cat E visibility to 3 miles.



MISSED APPROACH: Climb to 4400 then climbing right turn to 9000 via heading 021° and HLN VORTAC R-336 to WOKEN INT and hold.

ATIS 120.4	HELENA APP CON ★ 119.5 229.4	HELENA TOWER ★ 118.3 (CTAF) 257.8	GND CON 121.9	UNICOM 122.95
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MISSED APCH FIX

Missed approach obstructions require a minimum climb gradient of 320 feet/NM. If unable to meet rate of climb, see ILS or LOC Y RWY 27.

ENROUTE FACILITIES

ADF or DME
REQUIRED

4400 9000 HLN WOKEN NDB One Minute Holding Pattern
 ↑ ↗ R-336 △ HLN 8.4
 *LOC only 021° 117.7 FERRI OM 6742 087°
 HLN 4.4

* LOC only

CATEGORY	A	B	C	D	E
S-ILS 27	4052-½ 200 (200-½)				
S-LOC 27	5400-1¼ 1548 (1600-1¼)	5400-1½ 1548 (1600-1½)	5400-2½ 1548 (1600-2½)		
CIRCLING	5400-1¼ 1523 (1600-1¼)	5400-1½ 1523 (1600-1½)	5400-3 1523 (1600-3)		
FERRI FIX MINIMUMS *					
S-LOC 27	4420-½ 568 (600-½)		4420-1 568 (600-1)	4420-1¼ 568 (600-1¼)	4420-1½ 568 (600-1½)
CIRCLING	4640-1 763 (800-1)	4640-1¼ 763 (800-¼)	4740-2½ 863 (900-2½)	4740-2¾ 863 (900-2¾)	4840-3 963 (1000-3)

ELEV 3877

REIL Rwy 9 **L**
MIRL Rwy 5-23 and 16-34 **L**
HIRL Rwy 9-27 **L**

FAF to MAP 8.7 NM

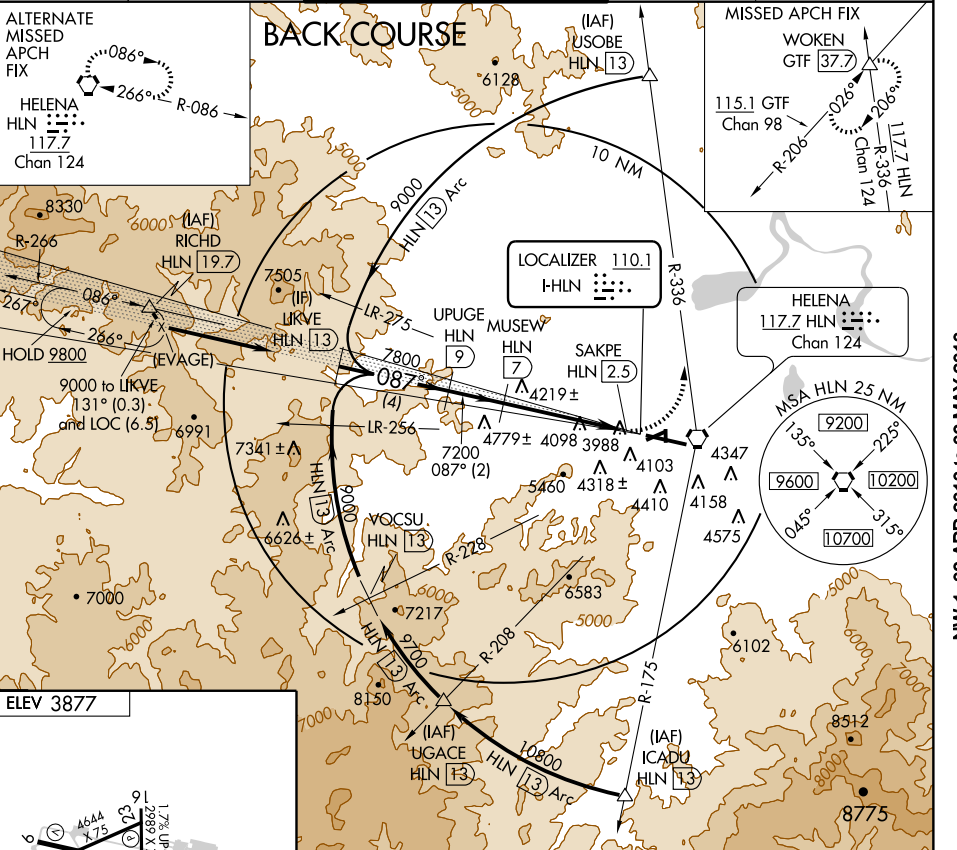
Knots	60	90	120	150	180
Min:Sec	8:42	5:48	4:21	3:29	2:54

LOC I-HLN	APP CRS	Rwy Idg TDZE	N/A
110.1	087°	Apt Elev	3877

DME from HLN VORTAC, simultaneous reception of I-HLN and HLN DME required.
 Circling NA south of Rwy 9-27 for Cat D.

MISSED APPROACH: Climbing left turn to 9000 via HLN VORTAC R-336 to WOKEN INT and hold.

ATIS	HELENA APP CON★	HELENA TOWER★	GND CON	UNICOM
120.4	119.5 229.4	118.3 (CTAF) 257.8	121.9	122.95

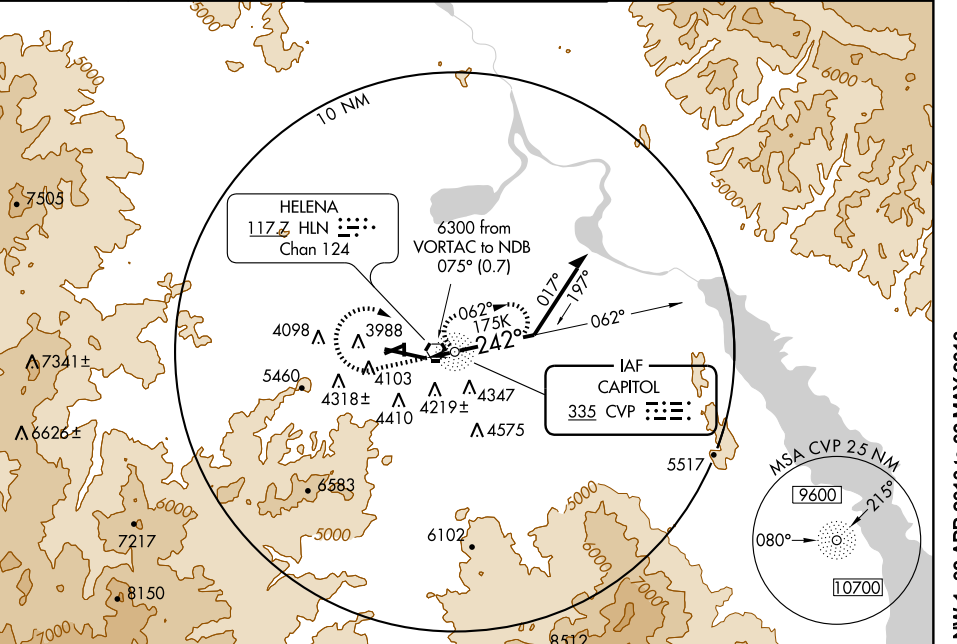


NDB CVP	APP CRS	Rwy Idg TDZE	N/A
335	242°	Apt Elev	3877

▼
▲

MISSED APPROACH: Climb to 5200, then climbing right turn to 6400 direct CVP NDB and hold.

ATIS 120.4	HELENA APP CON ★ 119.5 229.4	HELENA TOWER ★ 118.3 (CTAF) 0 257.8	GND CON 121.9	UNICOM 122.95
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ELEV 3877

REIL Rwy 9 0
MIRL Rwy 5-23 and 16-34 0
HIRL Rwy 9-27 0

CATEGORY	A	B	C	D	FAF to MAP 1.1 NM					
CIRCLING	4980-1¼ 1103 (1200-1¼)		NA		Knots	60	90	120	150	180
					Min:Sec	1:06	0:44	0:33	0:26	0:22

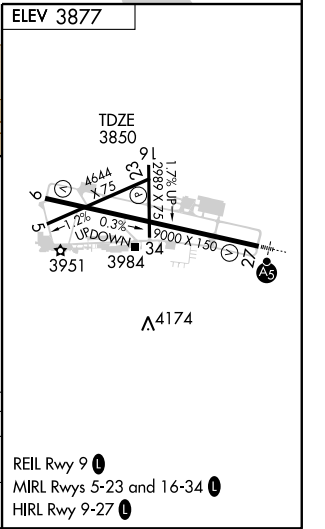
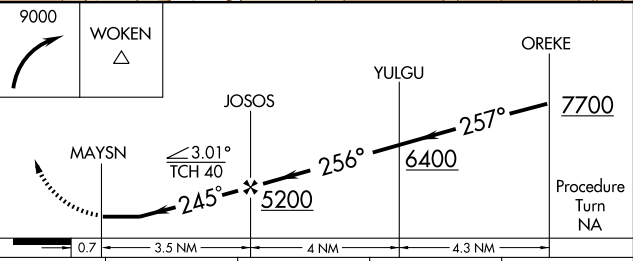
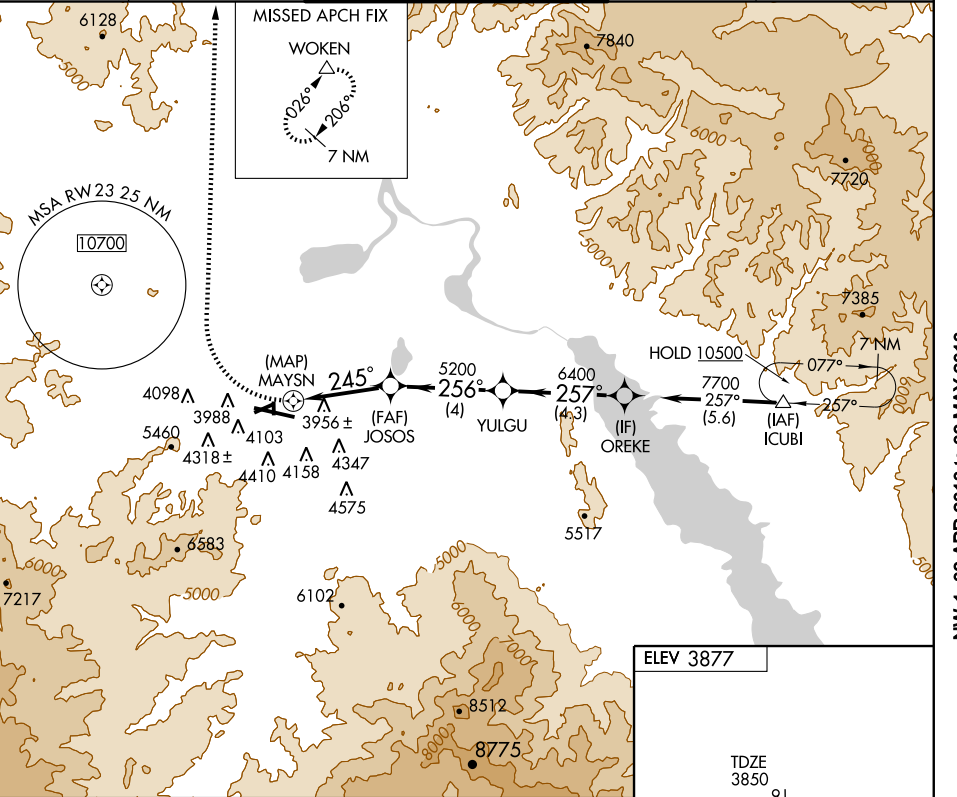
▼

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Circling NA for Cat D south of Rwy 9/27.
Visibility reduction by helicopters NA.
DME/DME RNP- 0.3 NA.

MISSED APPROACH: Climbing right turn to 9000 direct WOKEN and hold, continue climb-in-hold to 9000.

ATIS 120.4	HELENA APP CON ★ 119.5 229.4	HELENA TOWER ★ 118.3 (CTAF) 257.8	GND CON 121.9	UNICOM 122.95
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WAAS CH 69405 W27A	APP CRS 267°	Rwy Idg TDZE Apt Elev	9000 3852 3877
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RNAV (GPS) X RWY 27

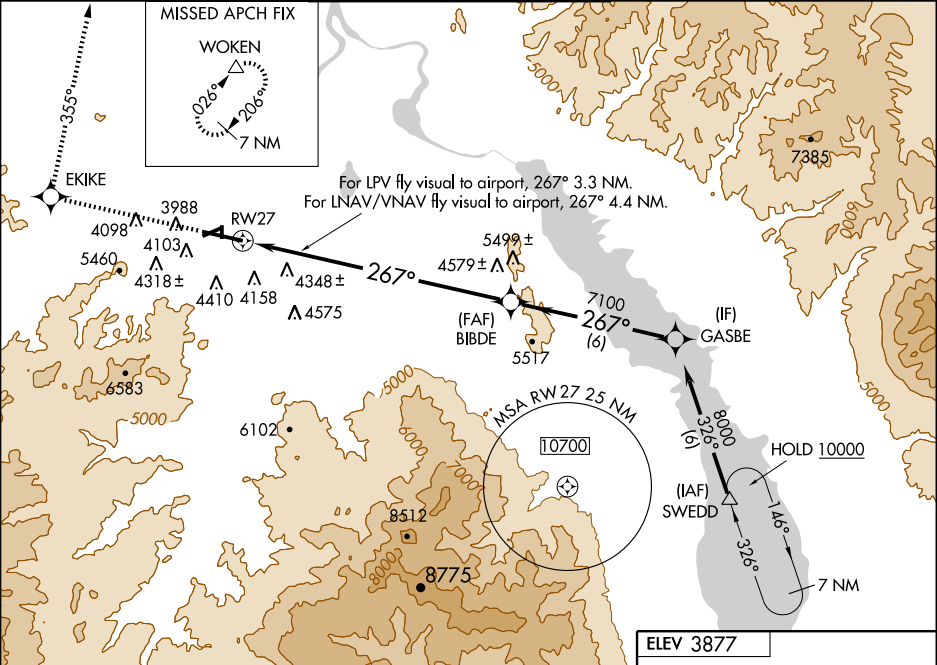
HELENA RGNL (HLN')

⚠ Circling NA for Cat D south of Rwy 9-27.
⚠ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -22°C (-7°F) or above 42°C (107°F). DME/DME RNP: 0.3 NA.
Inoperative table does not apply to LNAV Cats A-B.

MALSR

MISSED APPROACH: Climb to 9000
direct EKIKE and via 355° track
to WOKEN and hold.

ATIS 120.4	HELENA APP CON* 119.5 229.4	HELENA TOWER* 118.3 (CTAF) 0 257.8	GND CON 121.9	UNICOM 122.95
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ELEV 3877

9000

355° track
WOKEN
△

Procedure Turn NA

LPV, fly visual, 267° 3.3 NM.
LNAV/VNAV, fly visual 267° 4.4 NM.

RW27
*4.8 NM to RW27
*LNAV only
BIBDE
7100
267°
8000
GS 3.00° TCH 55
GASBE

267° to RW27
1.7% UP
1.2% DOWN
0.3%
91
2988 X 75
34
9000 X 150
3951
3984
TDZE 3852
△ 4174

CATEGORY	A	B	C	D
LPV DA	4965-2	1113 (1100-2)	4965-3	1113 (1100-3)
LNAV/VNAV DA	5289-2	1437 (1500-2)	5289-3	1437 (1500-3)
LNAV MDA	5440-1¼ 1588 (1600-1¼)	5440-1½ 1588 (1600-1½)	5440-2½	1588 (1600-2½)
CIRCLING	5440-1¼ 1563 (1600-1¼)	5440-1½ 1563 (1600-1½)	5440-3	1563 (1600-3)

REIL Rwy 9 **⓪**
MIRL Rwy 5-23 and 16-34 **⓪**
HIRL Rwy 9-27 **⓪**

APP CRS	Rwy Idg
087°	TDZE
	3864
	Apt Elev
	3877

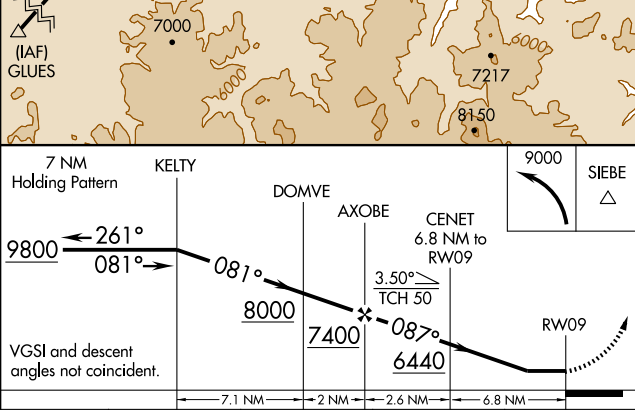
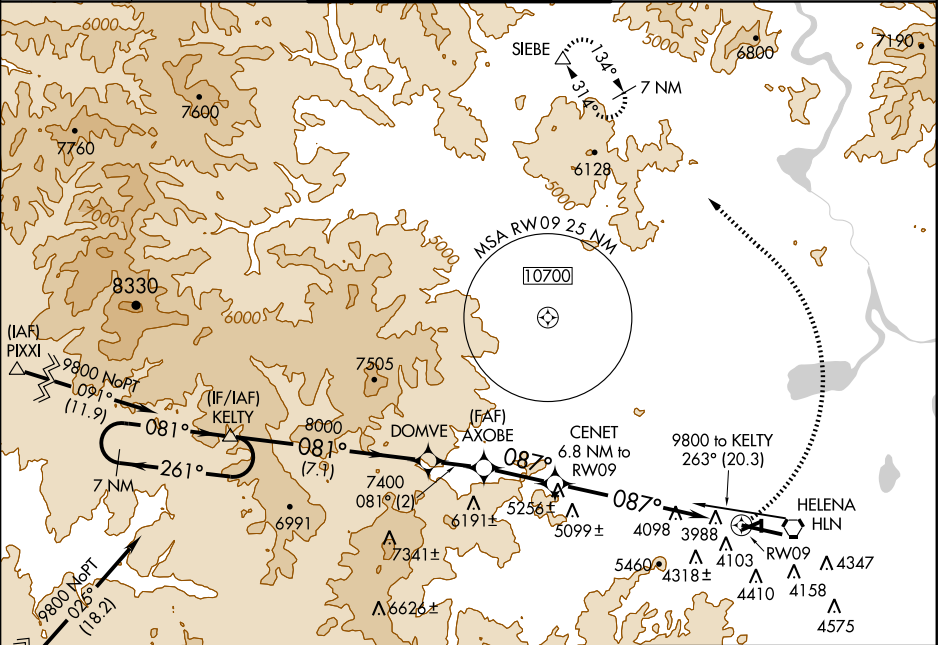
RNAV (GPS) Y RWY 9

HELENA RGNL (HLN)

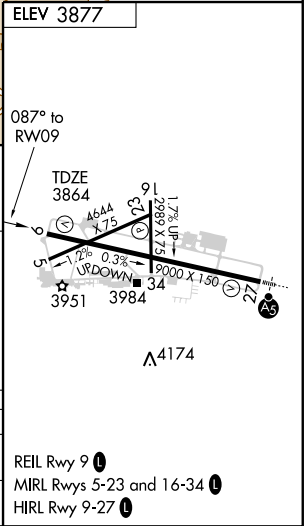
⚠ Circling NA for Cat D south of Rwy 9-27.
⚠ DME/DME RNP- 0.3 NA.
Visibility reduction by helicopters NA.

MISSED APPROACH: Climbing left turn to 9000 direct SIEBE and hold.

ATIS	HELENA APP CON ★	HELENA TOWER ★	GND CON	UNICOM
120.4	119.5 229.4	118.3 (CTAF) 257.8	121.9	122.95



CATEGORY	A	B	C	D
LNAV MDA	5440-1¼ 1576 (1600-1¼)	5440-1½ 1576 (1600-1½)	5440-3 1576 (1600-3)	
CIRCLING	5440-1¼ 1563 (1600-1¼)	5440-1½ 1563 (1600-1½)	5440-3 1563 (1600-3)	



APP CRS 267°	Rwy Idg TDZE 3852	9000
	Apt Elev 3877	

RNAV (RNP) Y RWY 27

HELENA RGNL (HLN)

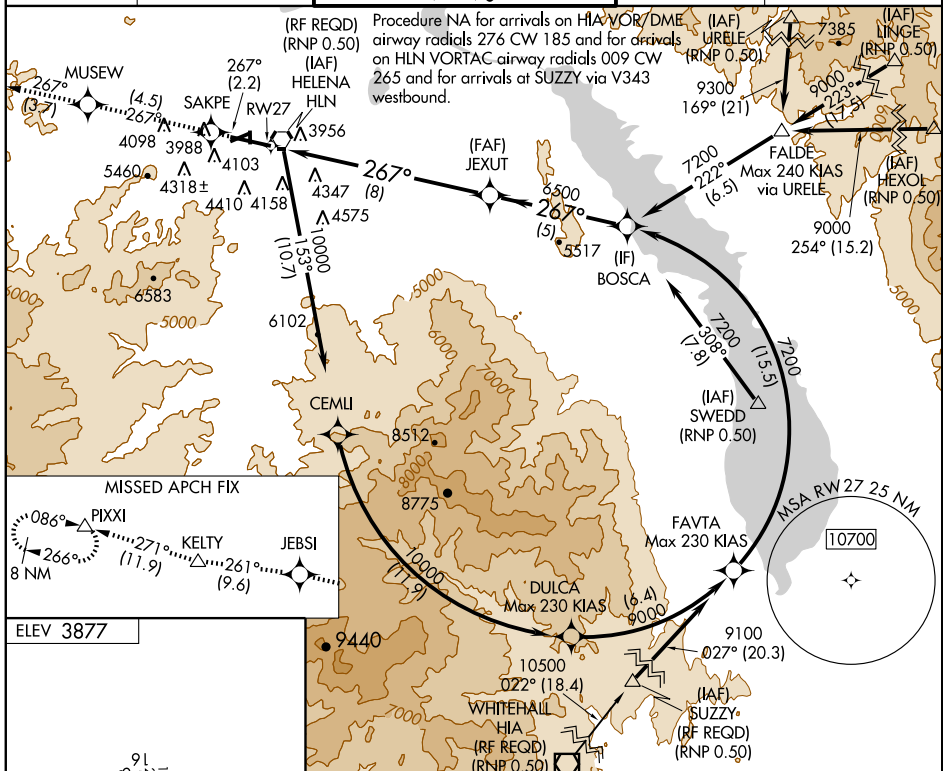
GPS required. For uncompensated Baro-VNAV systems, procedure NA below -22°C (-7°F) or above 41°C (105°F). For inoperative MALSR, increase RNP 0.22* visibility to 1, and RNP 0.30** visibility to 1½. Missed approach requires RNP less than 1.0. *Missed approach requires minimum climb of 290 feet per NM to 7700. **Missed approach requires minimum climb of 270 feet per NM to 7600; if unable, see RNAV (RNP) Z RWY 27.

MALSR

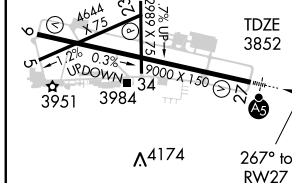


MISSED APPROACH: Climb to 13000 via 267° track to SAKPE, and via 267° track to MUSEW, and via 267° track to JEBSI, and via 261° track to KELTY, and via 271° track to PIXXI and hold, continue climb-in-hold to 13000.

ATIS 120.4	HELENA APP CON ★ 119.5 229.4	HELENA TOWER ★ 118.3 (CTAF) 0 257.8	GND CON 121.9	UNICOM 122.95
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ELEV 3877



13000	SAKPE	267° track	MUSEW	BOSCA	Procedure Turn NA
267°				7200	
				6500	
				8 NM	5 NM
CATEGORY	A	B	C	D	
RNP 0.22 DA*	4133-1½ 281 (300-1½)				
RNP 0.30 DA**	4287-1 435 (500-1)				

**SPECIAL AIRCRAFT AND AIRCREW
AUTHORIZATION REQUIRED**

REIL Rwy 9

MIRL Rwy 5-23 and 16-34

HIRL Rwy 9-27

MISSED APPROACH: Climb to 12000 via 087° track to BOSCA and via 001° track to URELE and hold, continue climb-in-hold to 12000.

* Missed approach requires minimum climb of 260' per NM to 4300.

UNICOM
122.95

REIL Rwy 9 **L**
MIRL Rwy 5-23 and 16-34 **L**
HIRL Rwy 9-27 **L**

**SPECIAL AIRCRAFT & AIRCREW
AUTHORIZATION REQUIRED**

APP CRS 267°	Rwy Idg TDZE Apt Elev	9000 3852 3877
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RNAV (RNP) Z RWY 27

HELENA RGNL (HLN)

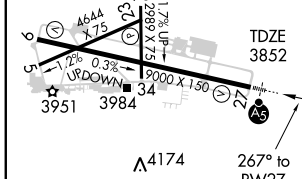
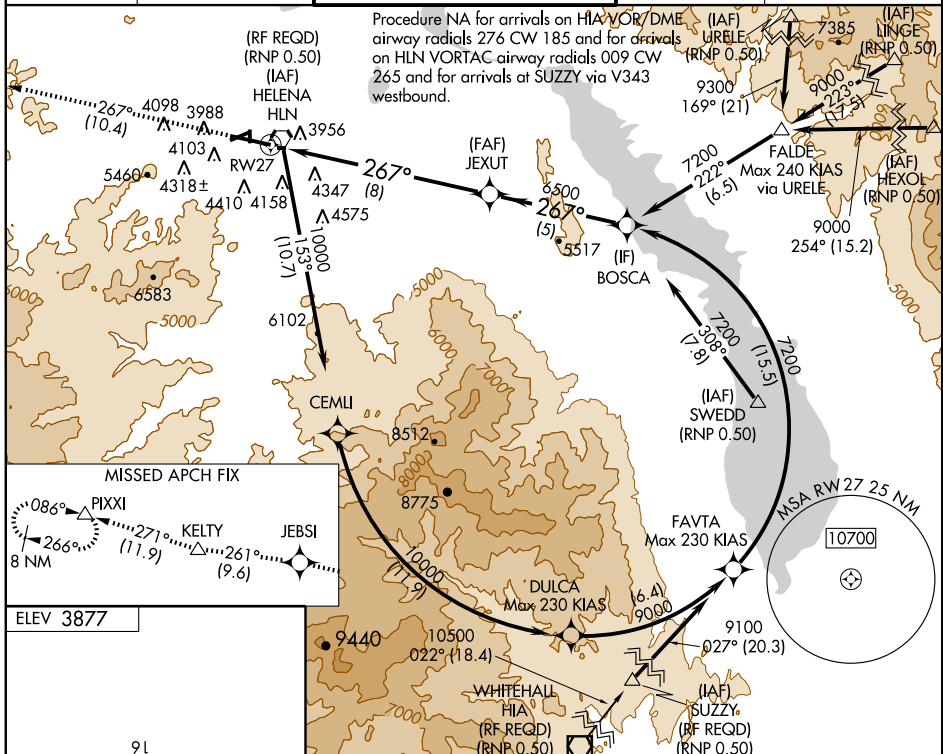
GPS required. For uncompensated Baro-VNAV systems, procedure NA below -22°C (-7°F) or above 41°C (105°F). *Missed approach requires minimum climb of 295 feet per NM to 7900. **Missed approach requires minimum climb of 290 feet per NM to 7300. ***Missed approach requires minimum climb of 405 feet per NM to 6300. For inoperative MALSR, increase RNP 0.18* visibility to 1, RNP 0.22** visibility to 1¼, and RNP 0.30*** visibility to 1½. Inoperative table does not apply to RNP 0.30.

MALSR



MISSED APPROACH: Climb to 13000 via 267° track to JEBSI, and via 261° track to KELTY, and via 271° track to PIXXI and hold, continue climb-in-hold to 13000.

ATIS 120.4	HELENA APP CON ★ 119.5 229.4	HELENA TOWER ★ 118.3 (CTAF) 0 257.8	GND CON 121.9	UNICOM 122.95
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


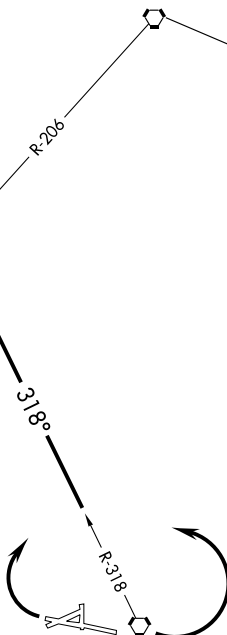
REIL Rwy 9 ①
MIRL Rwy 5-23 and 16-34 ①
HIRL Rwy 9-27 ①

13000	JEBSI	261° track	KELTY	JEBSI	BOSCA	Procedure Turn NA
267°	267°	267°	267°	267°	267°	
6500	6500	6500	6500	6500	6500	
8 NM	5 NM					
CATEGORY	A	B	C	D		
RNP 0.18 DA*		4119-½	267 (300-½)			
RNP 0.22 DA**		4212-¾	360 (400-¾)			
RNP 0.30 DA***		4287-1	435 (500-1)			
RNP 0.30 DA		4863-4	1011 (1000-4)			
SPECIAL AIRCRAFT AND AIRCREW AUTHORIZATION REQUIRED						

ATIS 120.4
GND CON
121.9
HELENA TOWER ★
118.3 (CTAF) 257.8
HELENA DEP CON ★
119.5 229.4


SIEBE
N46° 53.09'
W112° 09.08'
L-13

GREAT FALLS
115.1 GTF 
Chan 98



NOTE: Rwy 9, 1500-2 or standard
with minimum climb of
360 feet per NM to 6500 feet.

NOTE: Rwy 27, 2400-2 or standard
with minimum climb of
355 feet per NM to 7100 feet.

HELENA
117.7 HLN 
Chan 124
N46° 36.41' - W111° 57.21'

NOTE: Chart not to scale.



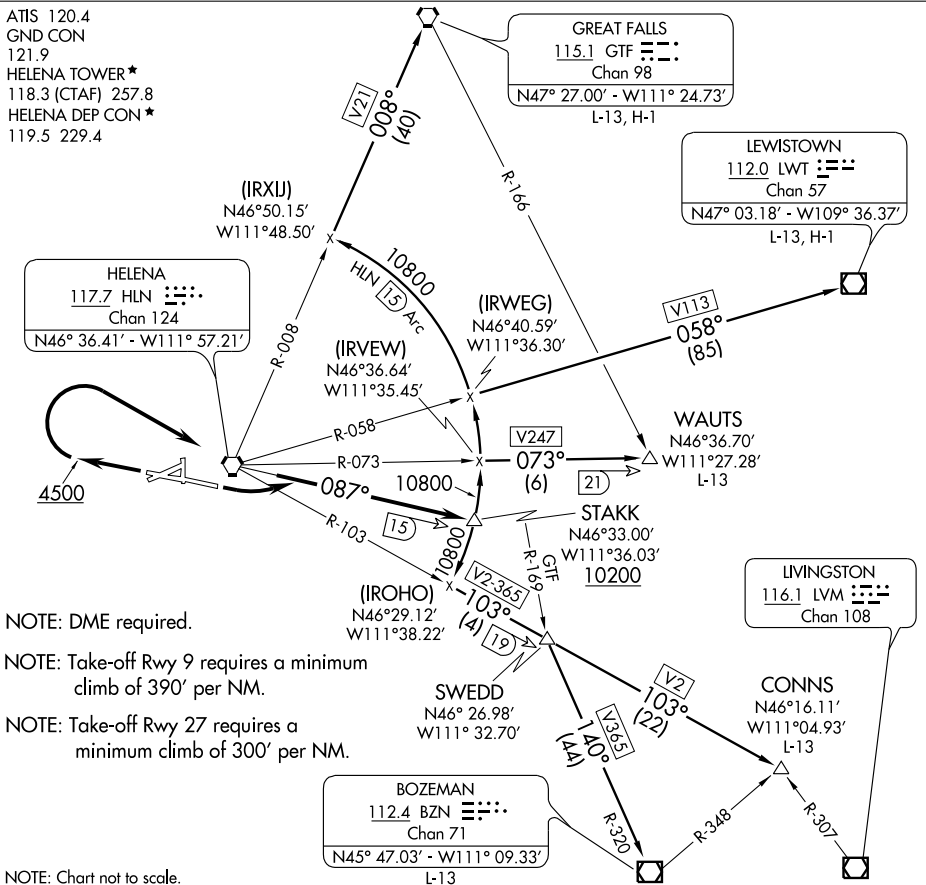
DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 9: Climbing left turn, thence. . . .

TAKE-OFF RUNWAY 27: Climbing right turn, thence. . . .

. . . . Intercept HLN R-318 to SIEBE INT.

STAKK TWO DEPARTURE



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 9: Climbing left turn to intercept HLN R-087 to cross STAKK INT at or above 10200'. Thence via transition.

TAKE-OFF RUNWAY 27: Climb on runway heading to 4500' then climbing right turn direct HLN VORTAC. Continue climb on HLN R-087 to cross STAKK INT at or above 10200'. Thence via transition.

BOZEMAN TRANSITION (STAKK2.BZN): From over STAKK INT via 15 DME Arc and V365 to BZN VOR/DME.

CONNIS TRANSITION (STAKK2.CONNIS): From over STAKK INT via 15 DME Arc and V2 to CONNIS INT.

GREAT FALLS TRANSITION (STAKK2.GTF): From over STAKK INT via 15 DME Arc and V21 to GTF VORTAC.

LEWISTOWN TRANSITION (STAKK2.LWT): From over STAKK INT via 15 DME Arc and V113 to LWT VORTAC.

WAUTS TRANSITION (STAKK2.WAUTS): From over STAKK INT via 15 DME Arc and V247 to WAUTS INT.

VORTAC HLN 117.7 Chan 124	APP CRS 266°	Rwy Idg TDZE Apt Elev	N/A N/A 3877
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VOR-A
HELENA RGNL (HLN)

T
A Circling NA for Cat D south of Rwy 9-27.

MISSED APPROACH: Climbing right turn to 9000 via HLN VORTAC R-336 to WOKEN INT and hold.

ATIS 120.4	HELENA APP CON ★ 119.5 229.4	HELENA TOWER ★ 118.3 (CTAF) 0 257.8	GND CON 121.9	UNICOM 122.95
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MISSED APCH FIX

ALTERNATE MISSED

APCH FIX

HELENA

HLN

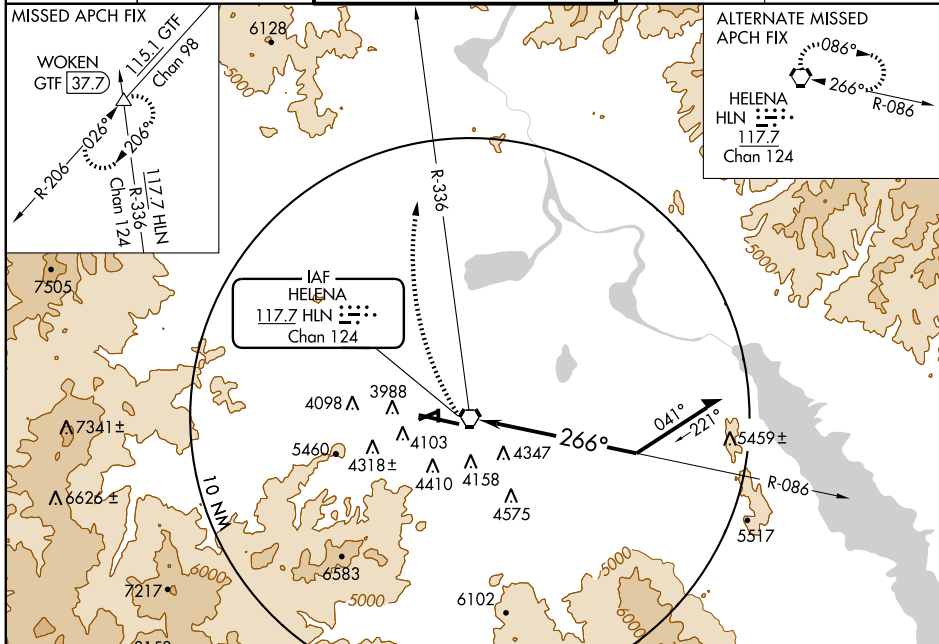
117.7

Chan 124

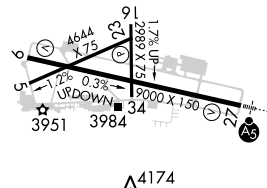
086°

266°

R-086



ELEV 3877



9000 HLN R-336	WOKEN △
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VORTAC

Remain
within 10 NM

Procedure Turn: Descend to 10000 in HLN VORTAC holding pattern prior to departing outbound for procedure turn.

0860

8200

CATEGORY	A	B	C	D
CIRCLING	6700-1¼ 2823 (2900-1¼)	6700-1½ 2823 (2900-1½)	6700-3 2823 (2900-3)	

REIL Rwy 9 **L**
MIRL Rwys 5-23 and 16-34 **L**
HIRL Rwy 9-27 **L**

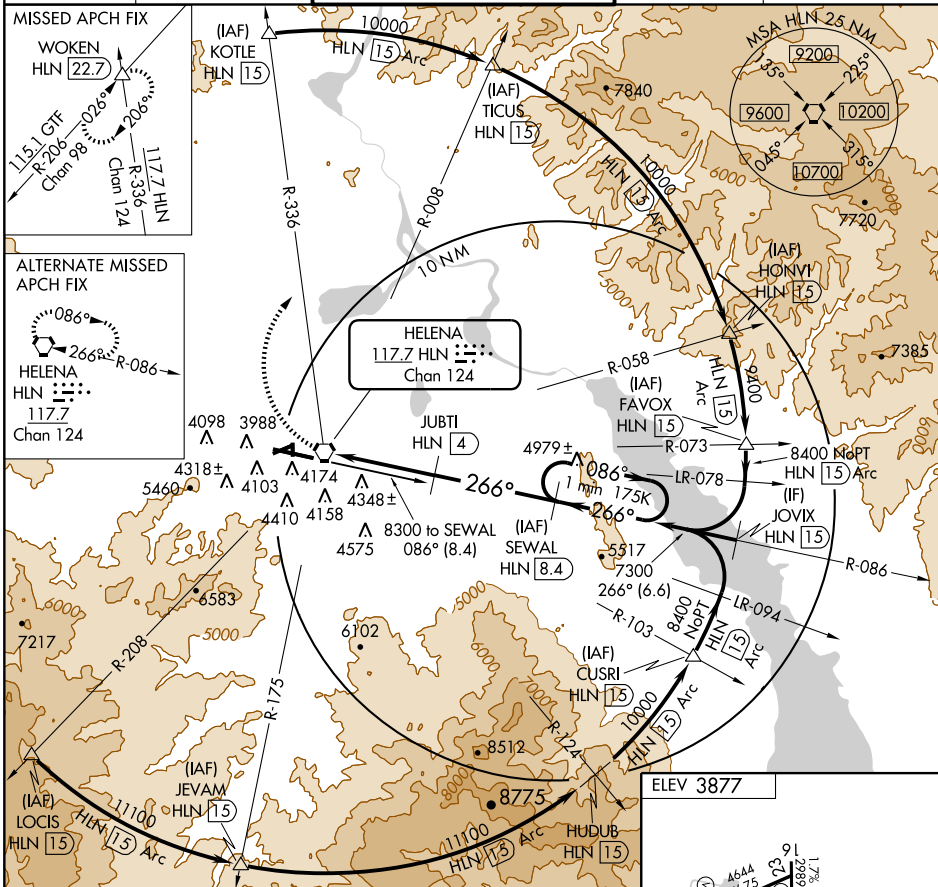
VORTAC HLN <u>117.7</u> Chan 124	APP CRS 266°	Rwy Idg TDZE Apt Elev	N/A N/A 3877
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VOR/DME-B
HELENA RGNL (HLN)

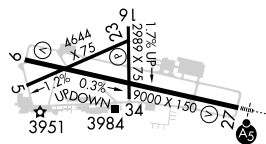
T Circling NA for Cat D south of Rwy 9-27.
A DME Arc to final approach course required for turbojet aircraft.
 Holding at SEWAL authorized for Cat A and B aircraft only.

MISSED APPROACH: Climbing right turn to 9000
via HLN VORTAC R-336 to WOKEN INT/22.7 DME
and hold.

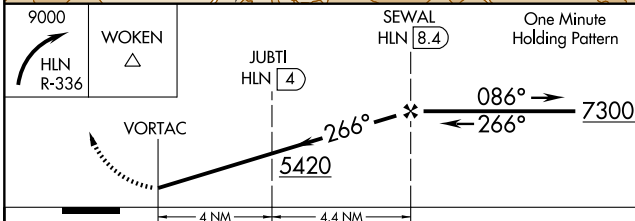
ATIS 120.4	HELENA APP CON ★ 119.5 229.4	HELENA TOWER ★ 118.3 (CTAF) 0 257.8	GND CON 121.9	UNICOM 122.95
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ELEV 3877



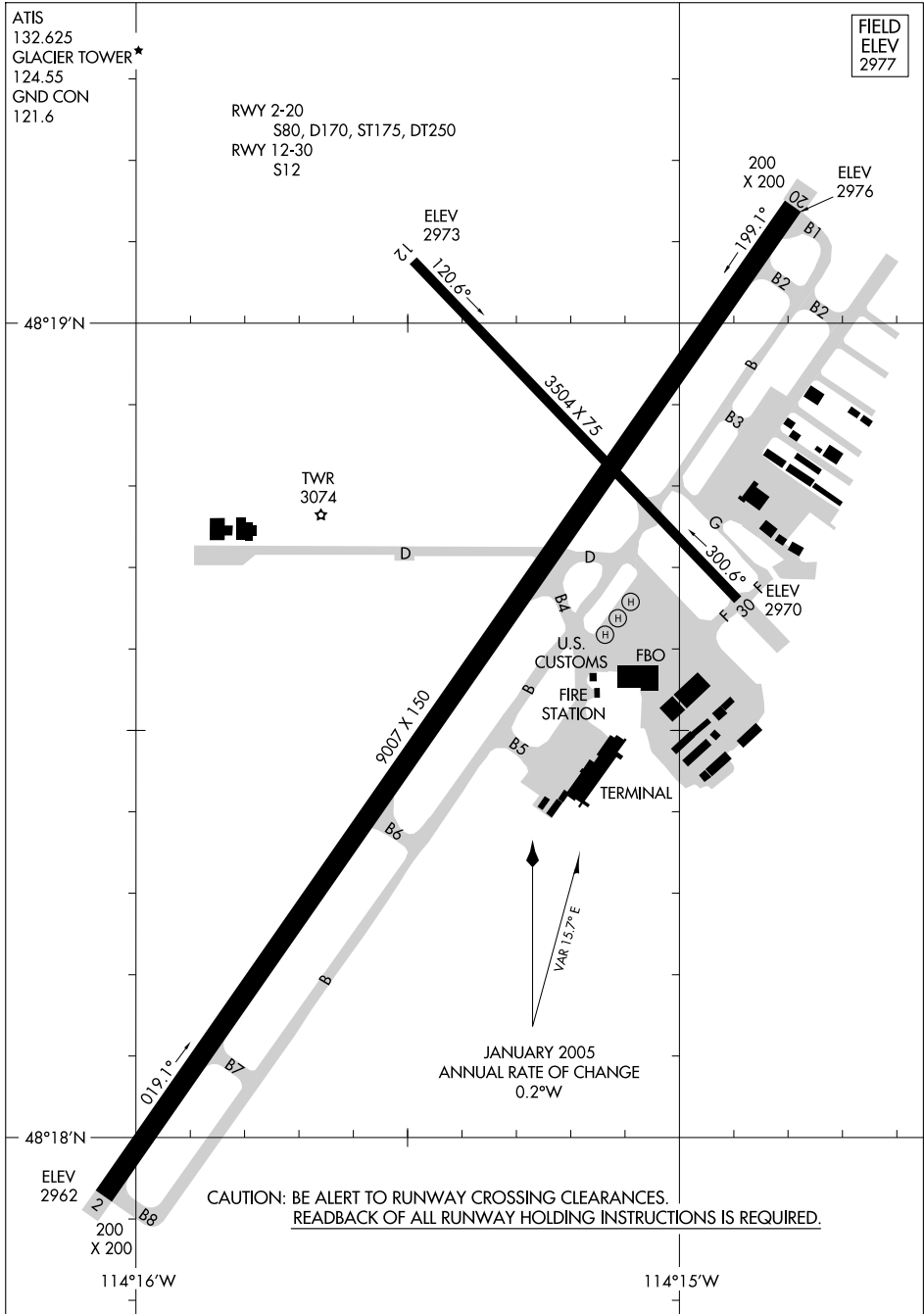
Δ⁴¹⁷⁴



REIL Rwy 9 **L**
MIRL Rwy 5-23 and 16-34 **L**
HIRL Rwy 9-27 **L**

AIRPORT DIAGRAM



AL-887 (FAA)

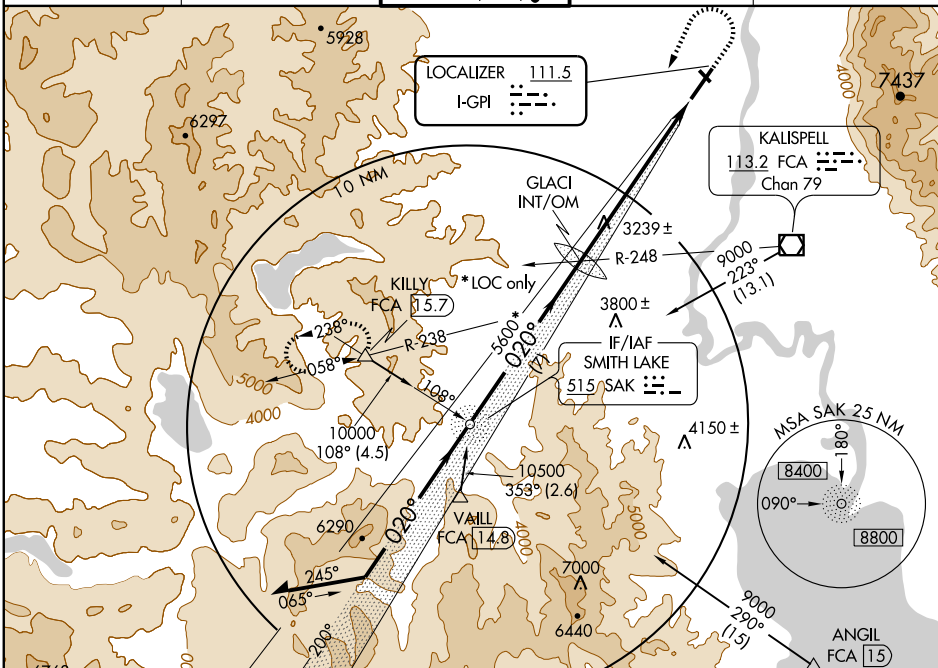
KALISPELL/GLACIER PARK INTL (GPI)
KALISPELL, MONTANA

LOC I-GPI <u>111.5</u>	APP CRS 020°	Rwy Idg TDZE Apt Elev	9006 2966 2977
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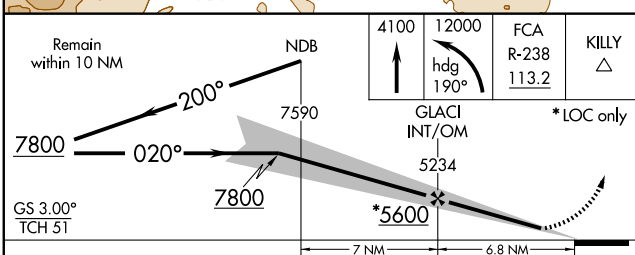
ILS or LOC RWY 2

KALISPELL/ GLACIER PARK INTL (GPI)

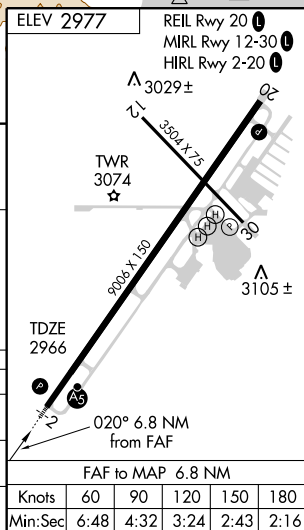
 ADF required.		 MALSR		MISSED APPROACH: Climb to 4100, then climbing left turn to 12000 via heading 190° and via FCA VOR/DME R-238 to KILLY INT/FCA 15.7 DME and hold, continue climb-in-hold to 12000.	
ATIS 132.625		SALT LAKE CENTER 133.4 285.4		GLACIER TOWER ★ 124.55 (CTAF)	
				GND CON 121.6	
				UNICOM 122.95	



ADF REQUIRED



CATEGORY	A	B	C	D
S-ILS 2	3166-1/2 200 (200-1/2)			
S-LOC 2	3540-1/2 574 (600-1/2)		3540-1 574 (600-1)	3540-1 1/4 574 (600-1 1/4)
CIRCLING	3540-1 563 (600-1)		3640-1 3/4 663 (700-1 3/4)	3640-2 663 (700-2)

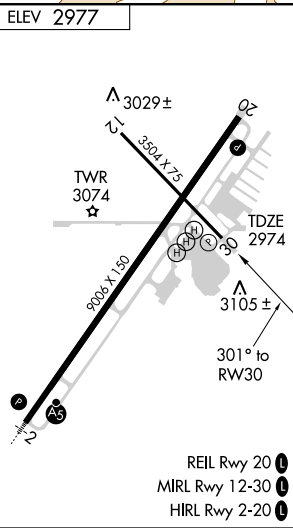
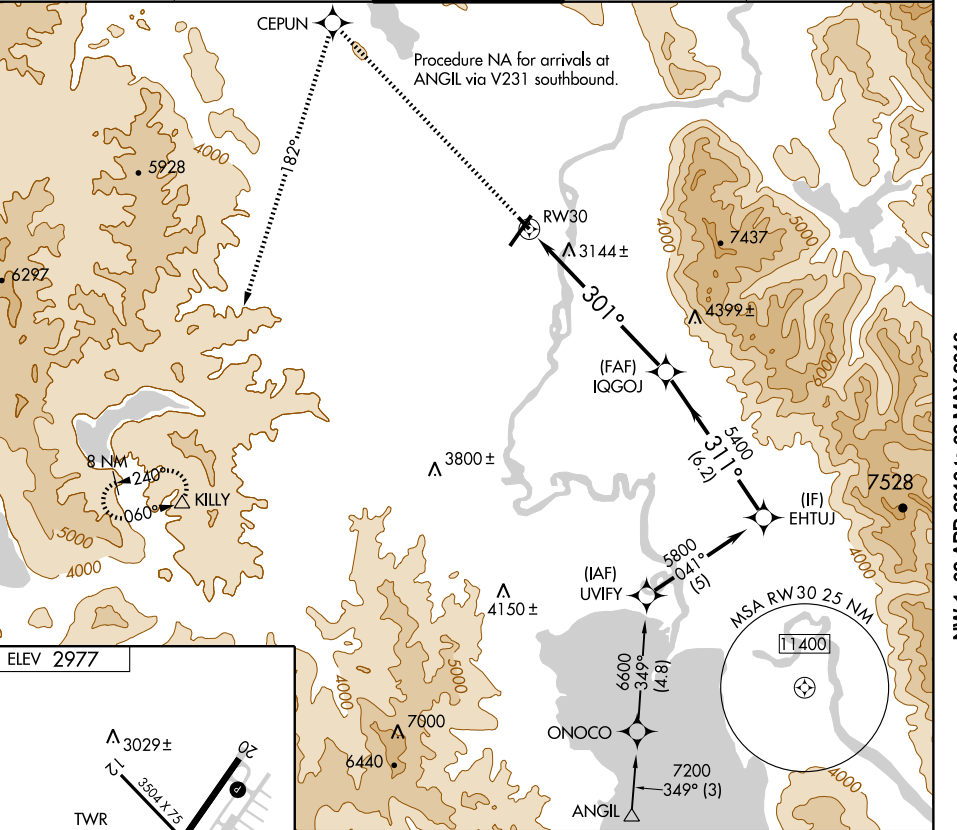


▼

Straight-in minimums NA at night.
DME/DME RNP-0.3 NA.
Visibility reduction by helicopters NA.

MISSED APPROACH: Climb to 12000 direct CEPUN
and left turn via track 182° to KILLY and hold, continue
climb-in-hold to 12000.

ATIS 132.625	SALT LAKE CENTER 133.4 285.4	GLACIER TOWER★ 124.55 (CTAF) 0	GND CON 121.6	UNICOM 122.95
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12000	CEPUN	182° trk	KILLY	EHTUJ
VGSI and descent angles not coincident				
RW30		301°	5400	5800
		≤ 3.21°		Procedure Turn NA
		TCH 45		
		7 NM	6.2 NM	
CATEGORY	A	B	C	D
LNNAV MDA	3460-1	486 (500-1)	3460-1¼ 486 (500-1¼)	3460-1½ 486 (500-1½)
CIRCLING	3520-1	543 (600-1)	3640-1¾ 663 (700-1¾)	3640-2 663 (700-2)

WAAS CH 70799 W02A	APP CRS 020°	Rwy ldg TDZE Apt Elev	9006 2966 2977
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For inoperative MALS, increase LPV visibility to 1 ¼ mile.
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -20°C (-4°F) or above 43°C (109°F). DME/DME RNP-0.3 NA.

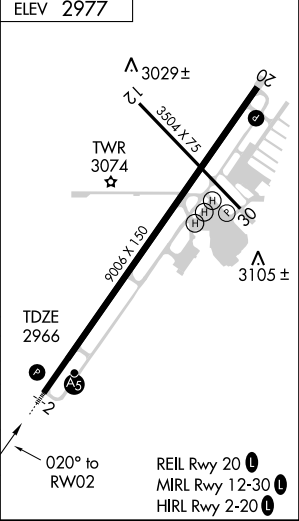
MALS

MISSED APPROACH: Climb to 9000 direct CUTUT and via track 290° to KECEK and via track 209° to BOFVY and hold.

ATIS 132.625	SALT LAKE CENTER 133.4 285.4	GLACIER TOWER★ 124.55 (CTAF)	GND CON 121.6	UNICOM 122.95
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Procedure Turn NA		AVDIH	BOGKO	CUTUT	KECEK	BOFVY
		7000	5200	5200	5200	5200
		020°	020°	290°	209°	209°
		4.9 NM	2.2 NM	3.3 NM	1.6 NM	1.8 NM
		3297-3/4	331 (400-3/4)			
		3502-1 1/2	536 (600-1 1/2)			
		3600-1/2	634 (700-1/2)	3600-1 1/4	634 (700-1 1/4)	3600-1 1/2
		3640-1 1/4	663 (700-1 1/4)	3640-2	663 (700-2)	



NW-1, 08 APR 2010 to 06 MAY 2010

APP CRS	Rwy Idg	9006
200°	TDZE	2977
	Apt Elev	2977

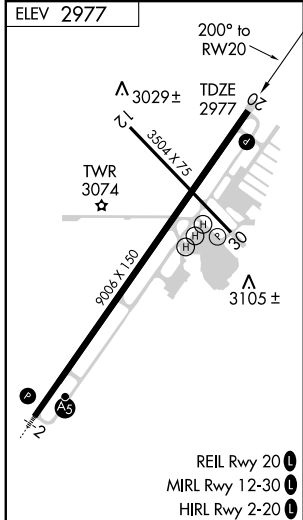
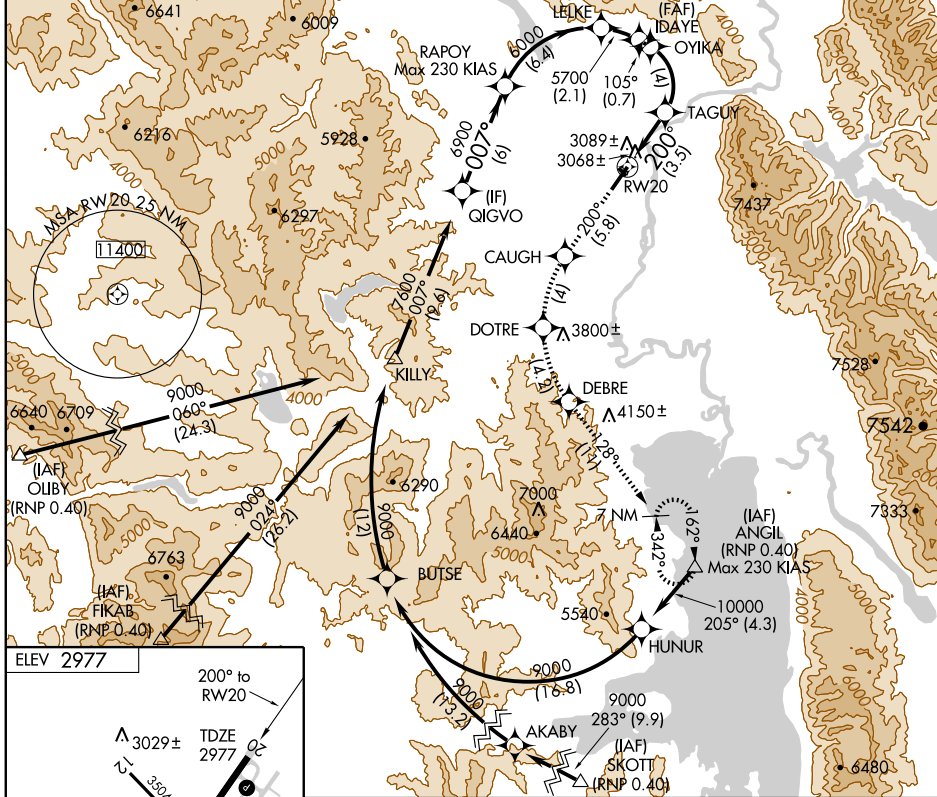
RNAV (RNP) RWY 20

KALISPELL/ GLACIER PARK INTL (GPI)

RF and GPS required. For uncompensated Baro-VNAV systems, procedure NA below -21°C (-5°F) or above 43°C (109°F).
***Missed approach requires minimum climb of 235 feet per NM to 6900.**
 Visibility reduction by helicopters NA.

MISSED APPROACH: Climb to 10000 via 200° track to CAUGH and via left turn to DOTRE, and via left turn to DEBRE, and via 128° track to ANGL and hold, continue climb-in-hold to 10000.

ATIS 132.625	SALT LAKE CENTER 133.4 285.4	GLACIER TOWER* 124.55 (CTAF) 0	GND CON 121.6	UNICOM 122.95
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10000 ↑ 200°	CAUGH	DOTRE	LELKE	RAPOY	QIGVO
7600	7600	7600	7600	7600	7600
6900	6900	6900	6900	6900	6900
5700	5700	5700	5700	5700	5700
3105	3105	3105	3105	3105	3105
3.5 NM	4 NM	0.7 NM	2.1 NM	6.4 NM	6 NM
CATEGORY	A	B	C	D	
RNP 0.10 DA*	3344-1¼	367 (400-1¼)			
RNP 0.30 DA*	3446-1¾	469 (500-1¾)			
RNP 0.30 DA	3662-2½	685 (700-2½)			


Procedure Turn NA
GP 3.00°
TCH 45

SPECIAL AIRCRAFT AND AIRCREW AUTHORIZATION REQUIRED

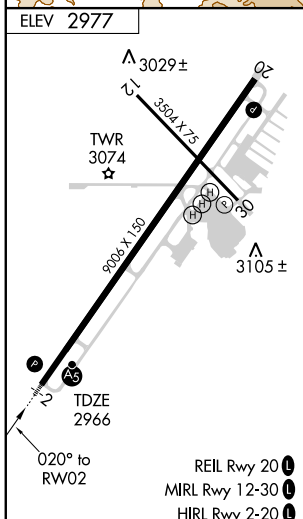
APP CRS	Rwy Idg	9006
020°	TDZE	2966
	Apt Elev	2977

RNAV (RNP) Y RWY 2 KALISPELL/ GLACIER PARK INTL (GPI)

RF and GPS required.
***Missed approach requires minimum climb of 220 feet per NM to 6100.**
Missed approach requires RNP less than 1.0.
 For uncompensated Baro-VNAV systems, procedure NA below -21°C (-5°F) or above 43°C (109°F). For inoperative MALSR increase RNP 0.10 * visibility to 1¼ and RNP 0.30 visibility to 2.

MALSR

MISSED APPROACH: Climb to 10000 via left turn to JOGAD, and via left turn to ROYOG and via left turn to TONUUY, and via 121° track to WILTO and via 129° track to ANGIL and hold.

ATIS 132.625	SALT LAKE CENTER 133.4 285.4	GLACIER TOWER * 124.55 (CTAF) 0	GND CON 121.6	UNICOM 122.95
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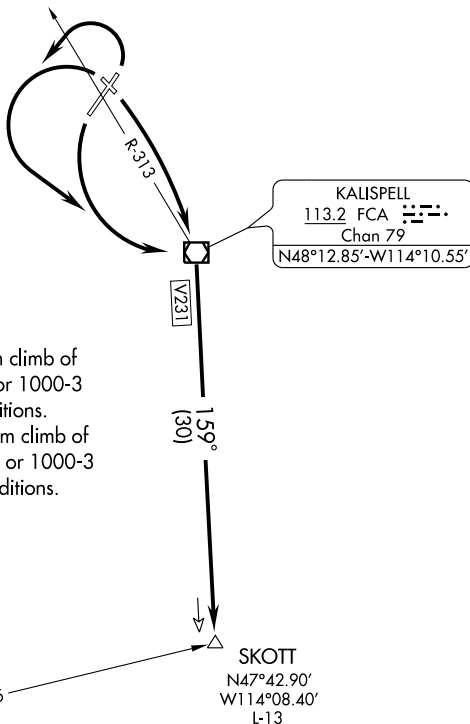
JUNRU		WULEX		AVDIH		10000		JOGAD		ROYOG	
8000		7200		6200		5200		5200		RW02	
Procedure		Turn		NA		3 NM		3.2 NM		7.1 NM	
GP 3.00°		TCH 51		3.2 NM		7.1 NM		6.7 NM			
CATEGORY		A		B		C		D			
RNP 0.10 DA*		NA		3340-¾		374 (400-¾)					
RNP 0.30 DA		NA		3522-1½		556 (600-1½)					
SPECIAL AIRCRAFT AND AIRCREW AUTHORIZATION REQUIRED											

**SPECIAL AIRCRAFT AND AIRCREW
AUTHORIZATION REQUIRED**

NW-1: 08 APR 2010 to 06 MAY 2010

SKOTT ONE DEPARTURE (OBSTACLE)

SALT LAKE CENTER
133.4 285.4
GREAT FALLS RADIO
122.6
GLACIER TOWER★
124.55



TAKE-OFF MINIMUMS

Rwys 12, 20: Standard.

Rwy 2: Standard with minimum climb of
444' per NM to 7500 or 1000-3
for climb in visual conditions.

Rwy 30: Standard with minimum climb of
249' per NM to 5900 or 1000-3
for climb in visual conditions.

TAKE-OFF OBSTACLE NOTES

Rwy 2: Multiple trees beginning 1468' from DER, 674' right of centerline, up to 91' AGL/3061' MSL.

Rwy 12: Multiple trees beginning 1426' from DER, 543' left of centerline, up to 129' AGL/3082' MSL.

Railroad 702' from DER, 317' left of centerline, 31' AGL/2997' MSL.

Road 544' from DER, 299' left of centerline, 22' AGL/2988' MSL.

Rwy 20: Multiple trees beginning 2742' from DER, 1140' left of centerline, up to 107' AGL/3169' MSL.

Rwy 30: Multiple trees beginning 1848' from DER, 722' left of centerline, up to 104' AGL/3067' MSL.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 2: Climbing left turn direct FCA VOR/DME, thence.... or, climb in visual conditions to cross Glacier Park Intl Airport southeast bound at or above 3800, then via FCA R-313 to FCA VOR/DME, thence....

TAKE-OFF RUNWAY 30: Climbing left turn direct FCA VOR/DME, thence.... or, climb in visual conditions to cross Glacier Park Intl Airport southeast bound at or above 3800, then via FCA R-313 to FCA VOR/DME, thence....

TAKE-OFF RUNWAY 12: Climbing right turn direct FCA VOR/DME, thence....

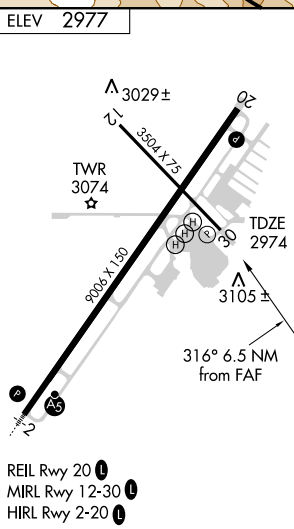
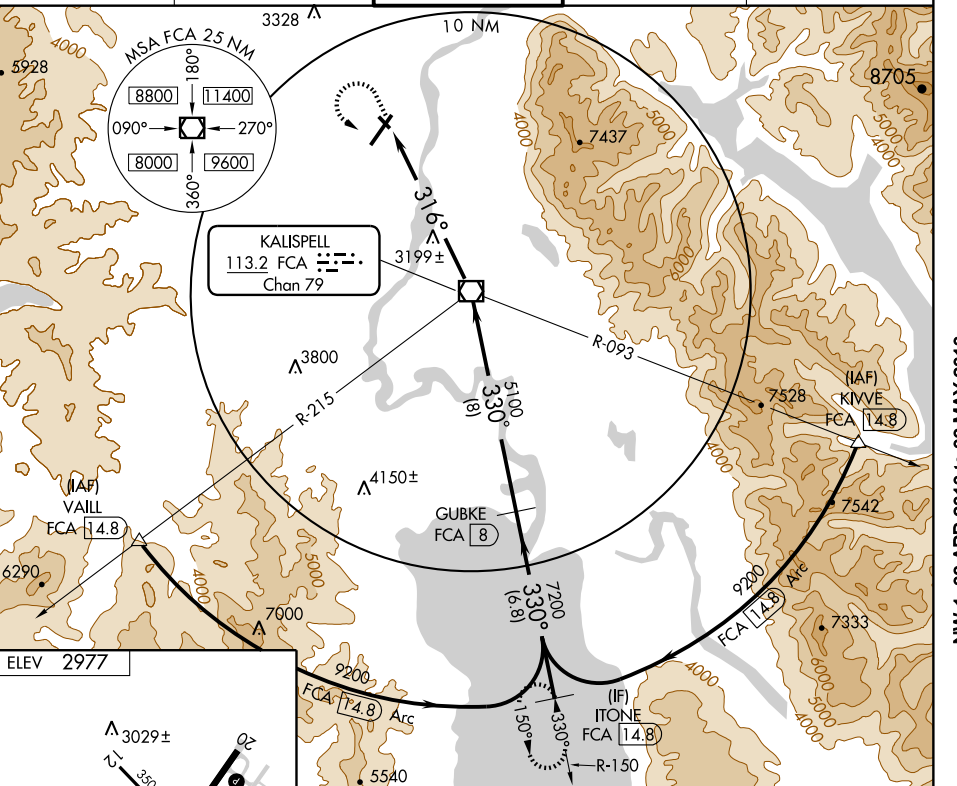
TAKE-OFF RUNWAY 20: Climbing left turn direct FCA VOR/DME, thence....

....continue climb to 10,000 via FCA R-159 to SKOTT INT.

▼ Visibility reduction by helicopters not authorized.
When VGSI inoperative, straight-in minimums not authorized at night.

MISSED APPROACH: Climb to 4000 then climbing left turn to 9300 via heading 130° and FCA R-150 to ITONE/14.8 DME and hold, continue climb-in-hold to 9300.

ATIS 132.625	SALT LAKE CENTER 133.4 285.4	GLACIER TOWER★ 124.55 (CTAF) 0	GND CON 121.6	UNICOM 122.95
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	4000	9300	FCA R-150 113.2	ITONE 14.8	ITONE FCA 14.8	
	VGSI and descent angles not coincident.	VOR/DME	GUBKE FCA 8			
		316°	330°	9200	7200	Procedure Turn NA
		6.5 NM	8 NM	6.8 NM		
CATEGORY	A	B	C	D		
S-30	3480-1	506 (600-1)	3480-1½	506 (600-1½)		
CIRCLING	3520-1	543 (600-1)	3640-1¾ 663 (700-1¾)	3640-2 663 (700-2)		

NW-1. 08 APR 2010 to 06 MAY 2010

▼

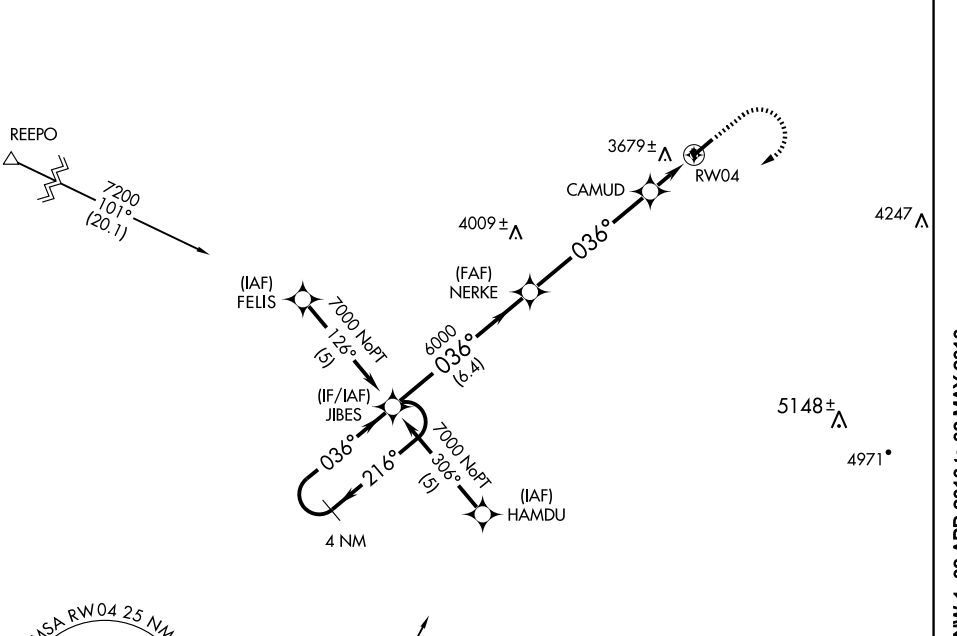
GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.

▲ NA

Use Billings altimeter setting.

MISSED APPROACH: Climb to 4600 then climbing right turn to 7000 direct JIBES WP and hold.

AWOS-3 123.05	BILLINGS APP CON 119.2 120.5 284.6	UNICOM 123.05 (CTAF) 0
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ELEV 3517

Rwy 32 Idg 1695'

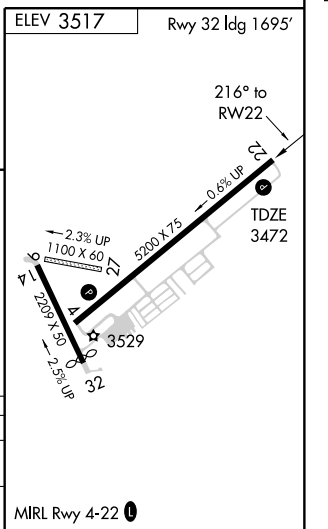
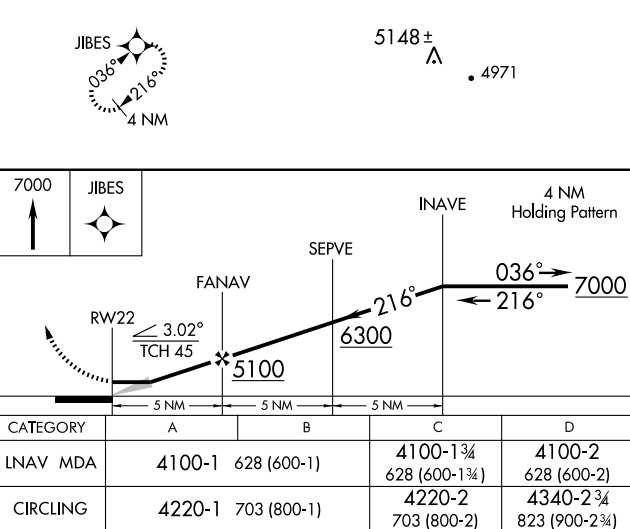
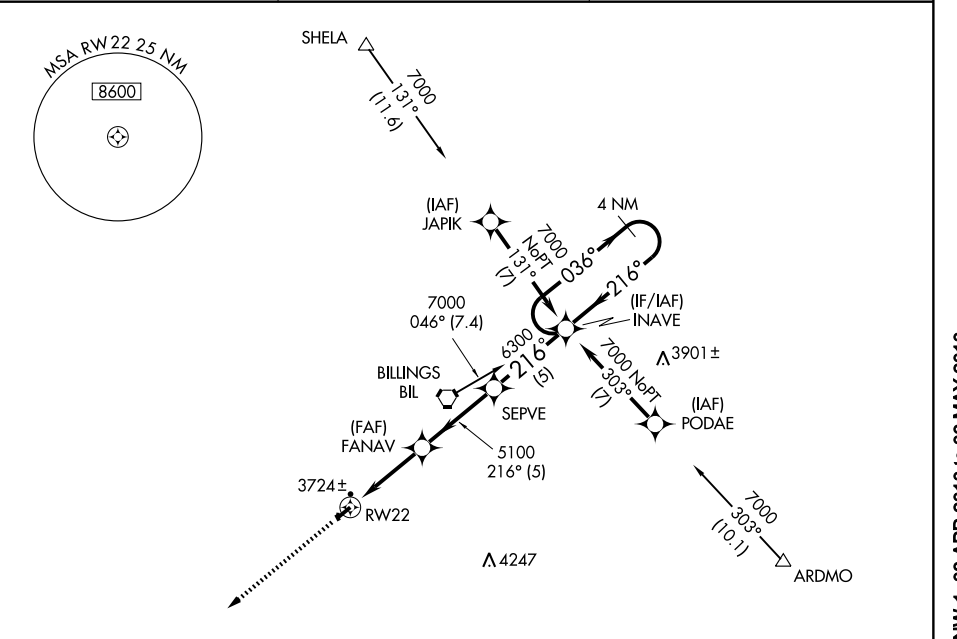
CATEGORY	A	B	C	D
LNAV	4120-1 632 (700-1)	4120-1¾ 632 (700-1¾)	4120-2 632 (700-2)	4120-2 632 (700-2)
CIRCLING	4220-1 703 (800-1)	4220-2 703 (800-2)	4340-2¾ 823 (900-2¾)	4340-2¾ 823 (900-2¾)

MRL Rwy 4-22 0

GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 7000 direct JIBES WP and hold.

AWOS-3 123.05	BILLINGS APP CON 119.2 120.5 284.6	UNICOM 123.05 (CTAF)
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NW-1. 08 APR 2010 to 06 MAY 2010

AL-6781 (FAA)

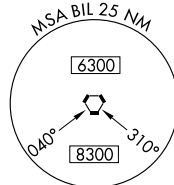
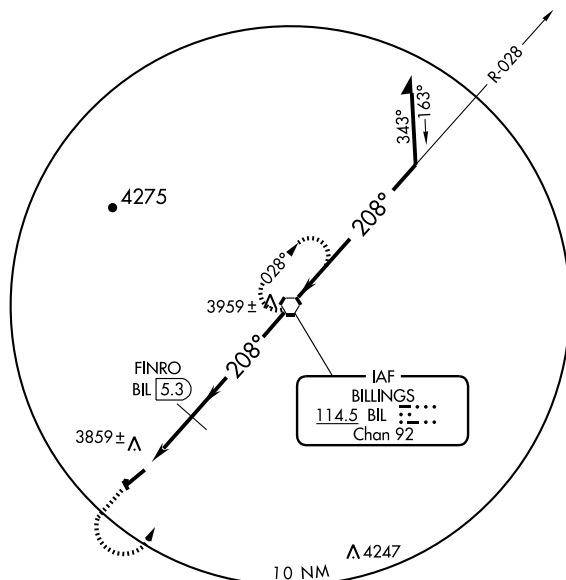
VOR RWY 22
LAUREL MUNI (6S8)



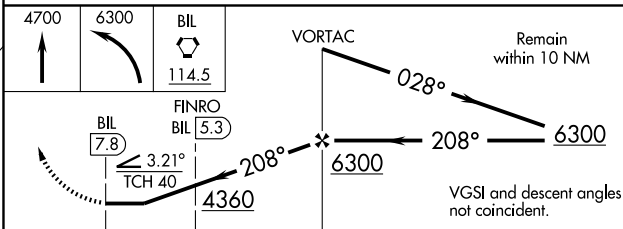
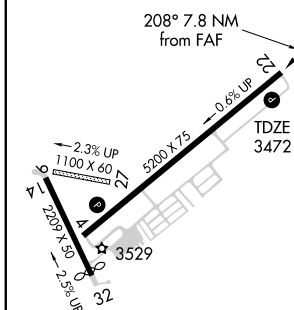
MISSED APPROACH: Climb to 4700 then climbing left turn to 6300 direct BIL VORTAC and hold.

AWOS-3
123.05

BILLINGS APP CON
119.2 120.5 284.6

UNICOM
123.05 (CTAF) **L**

ELEV 3517	Rwy 32 ldg 1695'
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CATEGORY	A	B	C	D
S-22	4360-1 1/4 888 (900-1 1/4)		4360-2 3/4 888 (900-2 3/4)	4360-3 888 (900-3)
CIRCLING	4360-1 1/4 843 (900-1 1/4)		4360-2 3/4 843 (900-2 3/4)	4360-3 843 (900-3)

FINRO FIX MINIMUMS

MIRL Rwy 4-22 0							PINKY PIA MINIMUMS						
							S-22	4160-1 688 (700-1)		4160-2 688 (700-2)		4160-2 688 (700-2) 1/4	
FAF to MAP 7.8 NM							CIRCLING	4220-1 703 (800-1)		4220-2 703 (800-2)		4340-2 823 (900-2) 3/4	
Knots	60	90	120	150	180								
Min:Sec	7:48	5:12	3:54	3:07	2:36								

NW-1. 08 APR 2010 to 06 MAY 2010

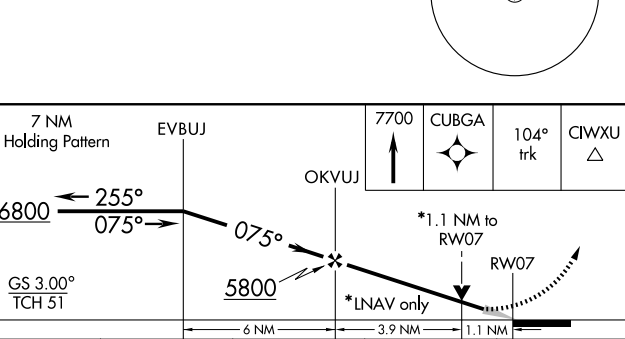
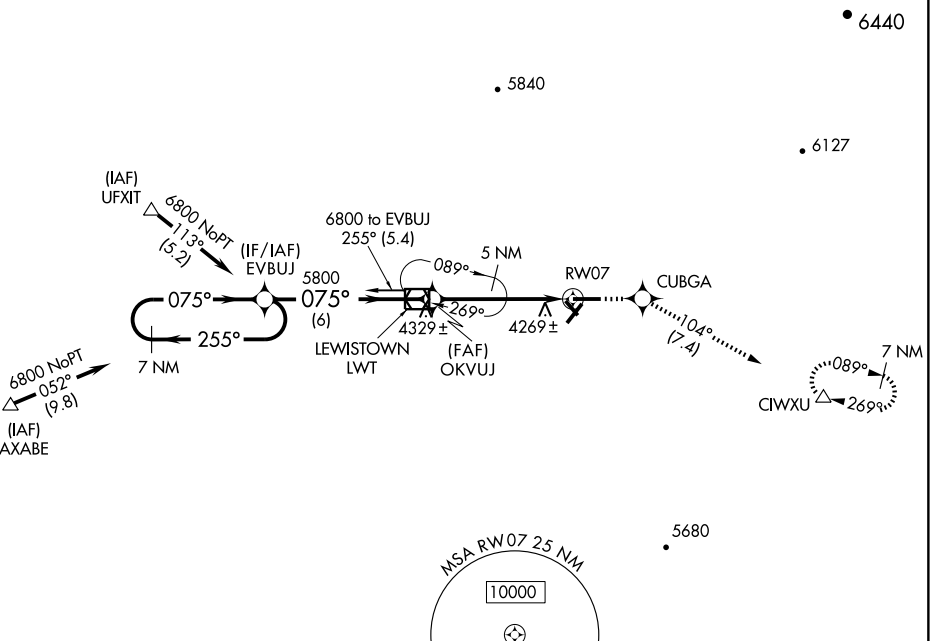
WAAS CH 86700 W07A	APP CRS 075°	Rwy Idg TDZE Apt Elev 4170
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RNAV (GPS) RWY 7
LEWISTOWN MUNI (LWT)

▼ DME/DME RNP -0.3 NA.
▲ If local altimeter setting not received, procedure NA.
Baro-VNAV NA below -23°C (-9°F)

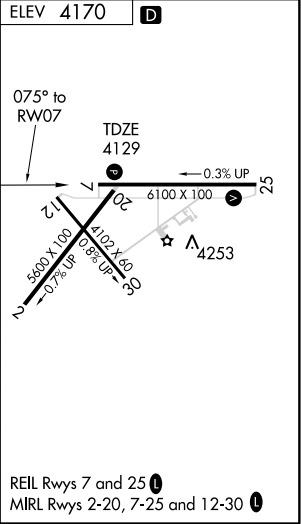
MISSED APPROACH: Climb to 7700 direct CUBGA and via 104° track to CIWXU and hold, continue climb-in-hold to 7700.

ASOS 118.375	GREAT FALLS RADIO 122.2	UNICOM 123.0 (CTAF) 0
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CATEGORY	A	B	C	D
LPV DA	4379-3/4		250 (300-3/4)	
LNAV/VNAV DA	4636-1 3/4		507 (500-1 3/4)	
LNAV MDA	4520-1		391 (400-1)	
CIRCLING	4680-1 3/4		4780-1 3/4	

610 (700-1 3/4)	4860-2 1/4	690 (700-2 1/4)
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VOR/DME LWT 112.0 Chan 57	APP CRS 075°	Rwy Idg 6100 TDZE 4126 Apt Elev 4167
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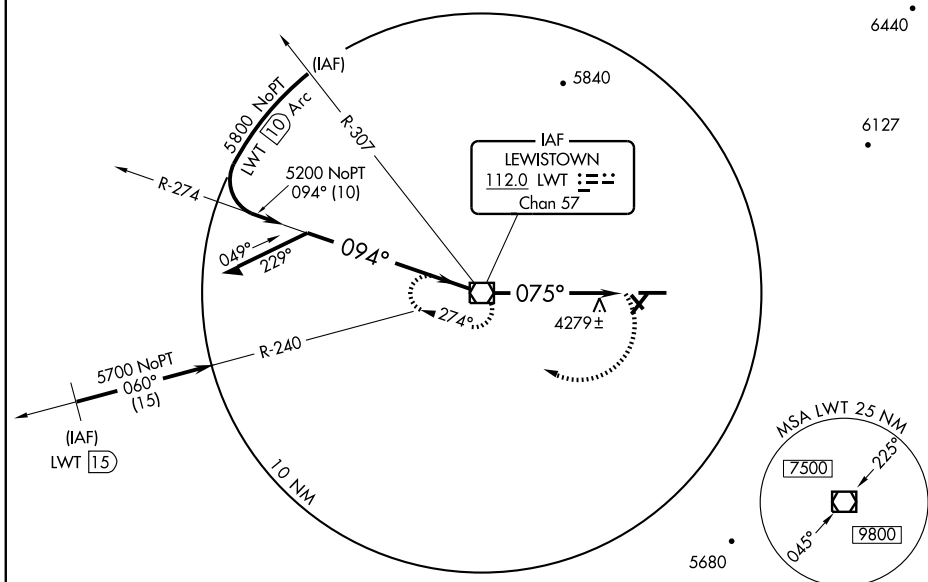
VOR RWY 7
LEWISTOWN MUNI (LWT)

T	If local altimeter setting not received, procedure not authorized.
A	

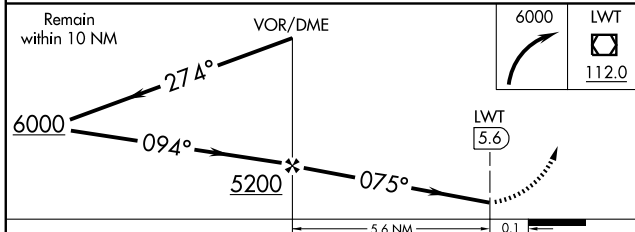
MISSED APPROACH: Climbing right turn to 6000
direct LWT VOR/DME and hold.

ASOS
118,375

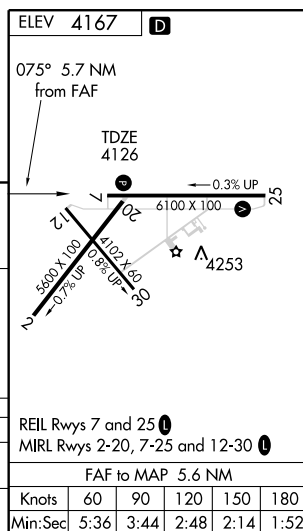
GREAT FALLS RADIO
122.2

UNICOM
123.0 (CTAF) **L**

NW-1. 08 APR 2010 to 06 MAY 2010



CATEGORY	A	B	C	D
S-7	4600-1	474 (500-1)	4600-1¼ 474 (500-1¼)	4600-1½ 474 (500-1½)
CIRCLING	4660-1	493 (500-1)	4660-1½ 493 (500-1½)	4880-2 713 (800-2¼)



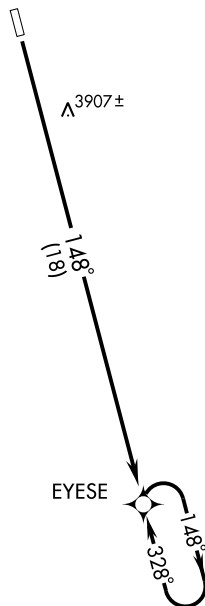
EYESE ONE DEPARTURE (RNAV) (OBSTACLE)

SEATTLE CENTER

123.95 282.3

AWOS-A

118.575



NOTE: 1. GPS Required.
2. RNAV 1

TAKE-OFF MINIMUMS: 1400-2 or standard with a minimum
climb of 380' per NM to 9600'.
3907' terrain 23,697' from runway threshold,
2491' left of centerline.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 15: Climb via 148° course to 9600' to EYESE WP, then
continue climb to 12,000' within the EYESE holding pattern.

APP CRS 148°	Rwy Idg TDZE Apt Elev	N/A N/A 2601
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GPS-A
LIBBY (S59)

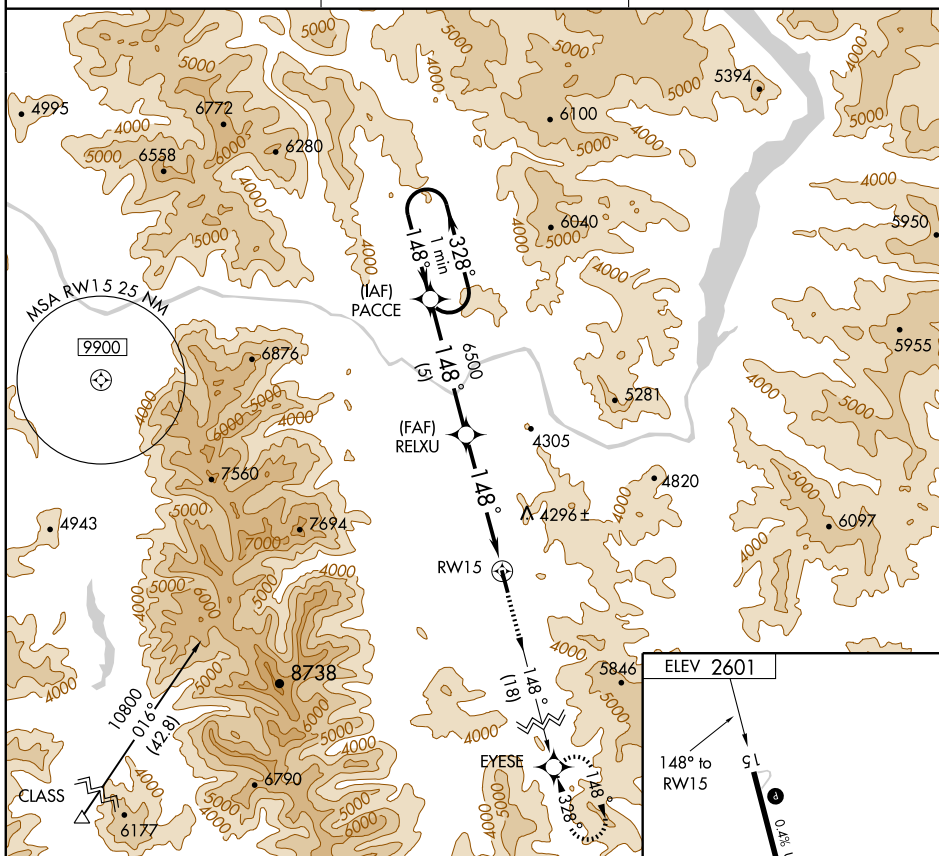
T Obtain local altimeter setting on CTAF; when not received procedure not authorized.

A NA Circling not authorized east of Rwy 15-33 at night.

MISSED APPROACH: Climb to 9600 via 148° course to EYSE WP and hold.

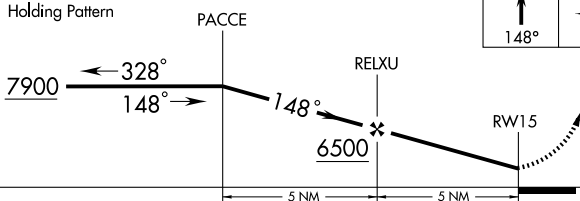
AWOS-A
118.575


SEATTLE CENTER
123.95 282.3

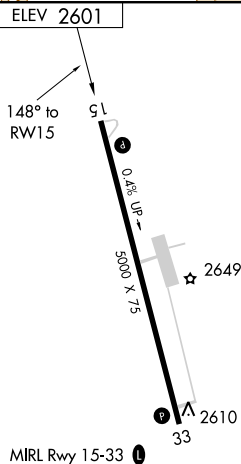
UNICOM
122.8 (CTAF) 

NW-1. 08 APR 2010 to 06 MAY 2010

One Minute Holding Pattern



9600 ↑ 148°	EYSE 
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CATEGORY	A	B	C	D
CIRCLING	5100-1¼ 2499 (2500-1¼)	5100-1½ 2499 (2500-1½)	NA	

APP CRS

234°

Rwy Idg

5701

TDZE

4649

Apt Elev

4660

GPS RWY 22

LIVINGSTON/MISSION FIELD (LVM)

▼

NA

MISSED APPROACH: Climbing right turn to 10000 via 305° course to NUKUW WP and hold.

ASOS

135.275

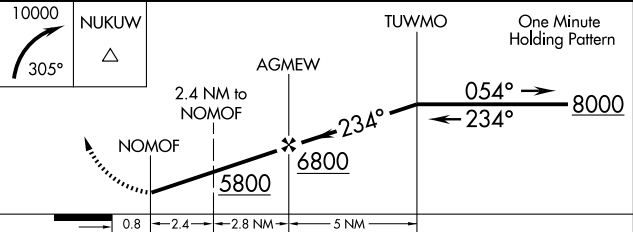
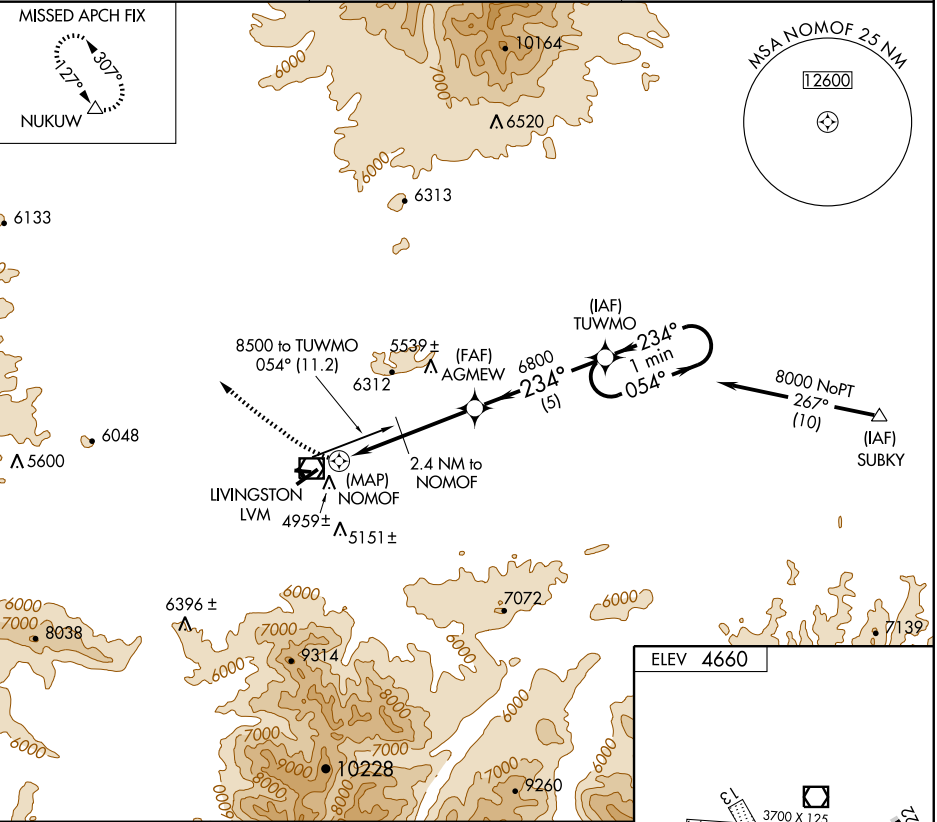
GREAT FALLS RADIO

122.2

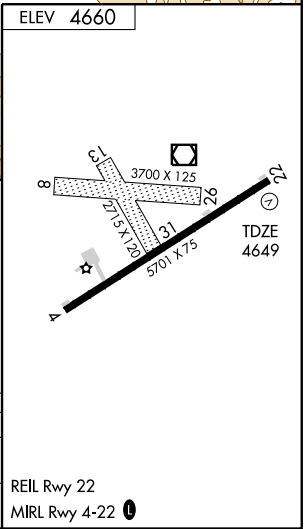
UNICOM

123.0 (CTAF)

0

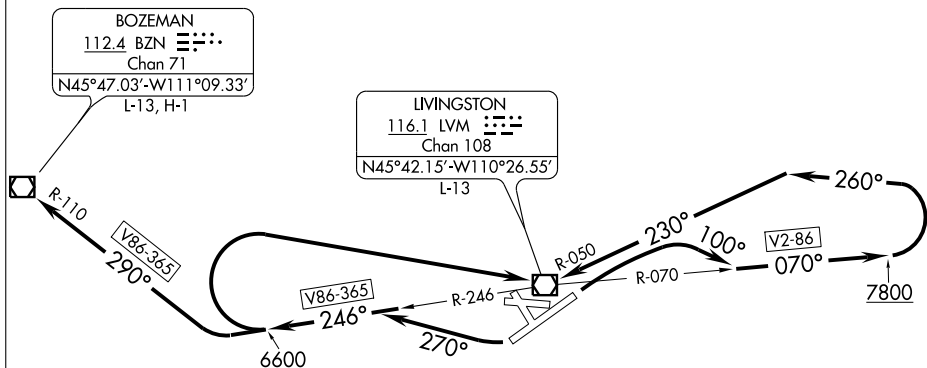


CATEGORY	A	B	C	D
S-22	5080-1	431 (500-1)	5080-1½ 431 (500-1½)	5080-1½ 431 (500-1½)
CIRCLING	5360-1 700 (700-1)	5380-1 720 (800-1)	5380-2 720 (800-2)	5580-3 920 (1000-3)



LIVINGSTON ONE DEPARTURE (OBSTACLE)

GREAT FALLS RADIO
122.2
ASOS 135.275



TAKE-OFF MINIMUMS

Rwys 8, 13, 26, 31: NA-Environmental.

Rwy 4: Standard.

Rwy 22: Standard with minimum climb of 300' per NM to 6800
or 2700-3 for climb in visual conditions.

TAKE-OFF OBSTACLE NOTE

Rwy 22: Multiple trees beginning 400' from DER, 256' right of centerline, up to 100' AGL/4719' MSL.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 4: Climbing right turn heading 100° and LVM VOR/DME R-070 outbound; aircraft departing eastbound, climb via LVM R-070/V2-86 enroute. All others continue climb on LVM R-070 to 7800, then climbing left turn via heading 260° and LVM R-050 to cross LVM VOR/DME at or above 9000, then climb enroute.

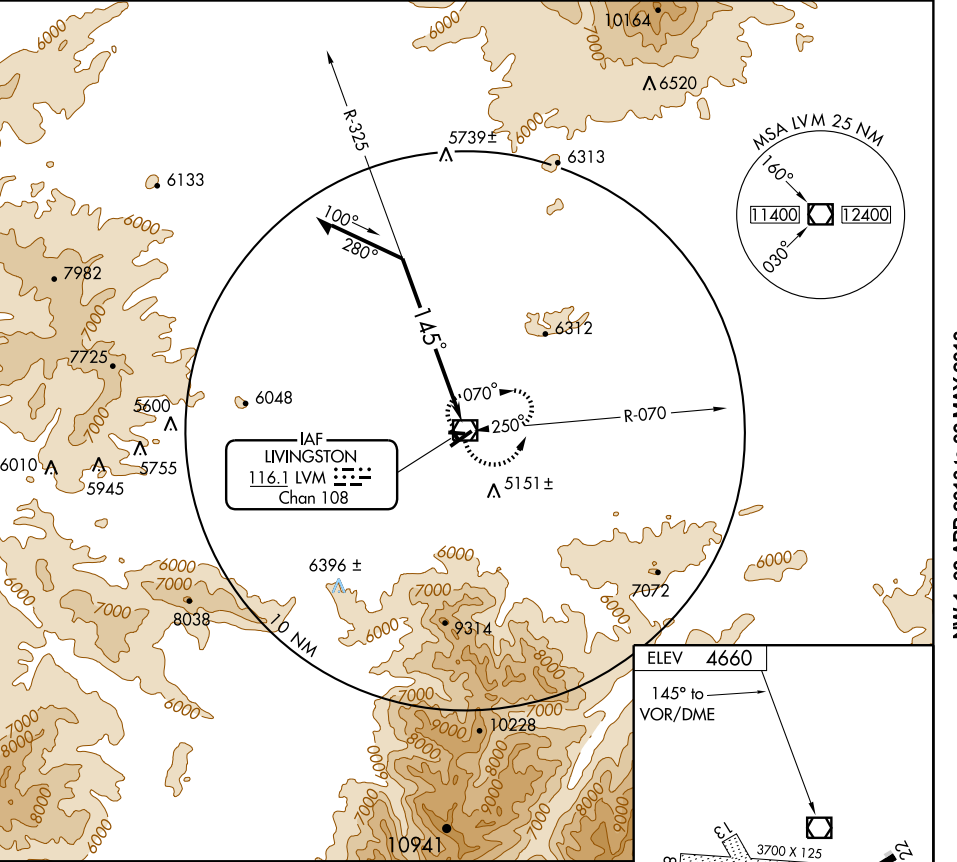
TAKE-OFF RUNWAY 22: Climbing right turn heading 270° and LVM VOR/DME R-246 outbound; aircraft departing eastbound, continue climb via LVM R-246 outbound to 6600, then climbing right turn direct LVM VOR/DME, then climb on LVM R-070/V2-86 enroute. All other aircraft continue climb via LVM VOR/DME R-246 and BZN VOR/DME R-110 to BZN. For climb in visual conditions, cross LVM VOR/DME at or above 9000 before proceeding via filed airway route.

▼

▲

MISSED APPROACH: Climbing left turn to 7700 via LVM R-070, then climbing left turn to 9500 direct LVM VOR/DME and hold.

ASOS 135.275	GREAT FALLS RADIO 122.2	UNICOM 123.0 (CTAF) 0
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Remain within 10 NM

8300

325°

145°

* VOR/DME

7700

LVM R-070

9500

LVM

116.1

* Maintain 10600 or above until established outbound for procedure turn.

ELEV 4660

145° to VOR/DME

3700 X 125

2113 X 120

5701 X 75

CATEGORY	A	B	C	D
CIRCLING	6800-1¼ 2140 (2200-1¼)	6800-1½ 2140 (2200-1½)	6800-3	2140 (2200-3)

REIL Rwy 22

MIRL Rwy 4-22 0

VOR/DME LVM
116.1
Chan **108**

APP CRS
145°

Rwy Idg
TDZE
Apt Elev
N/A
N/A
4660

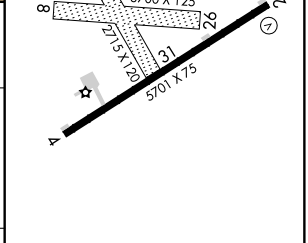
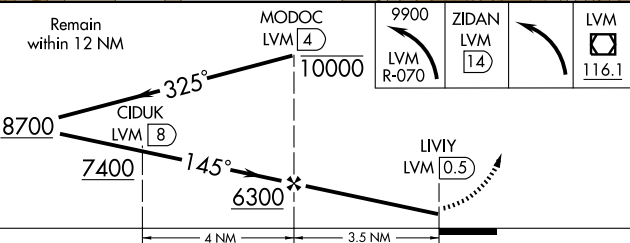
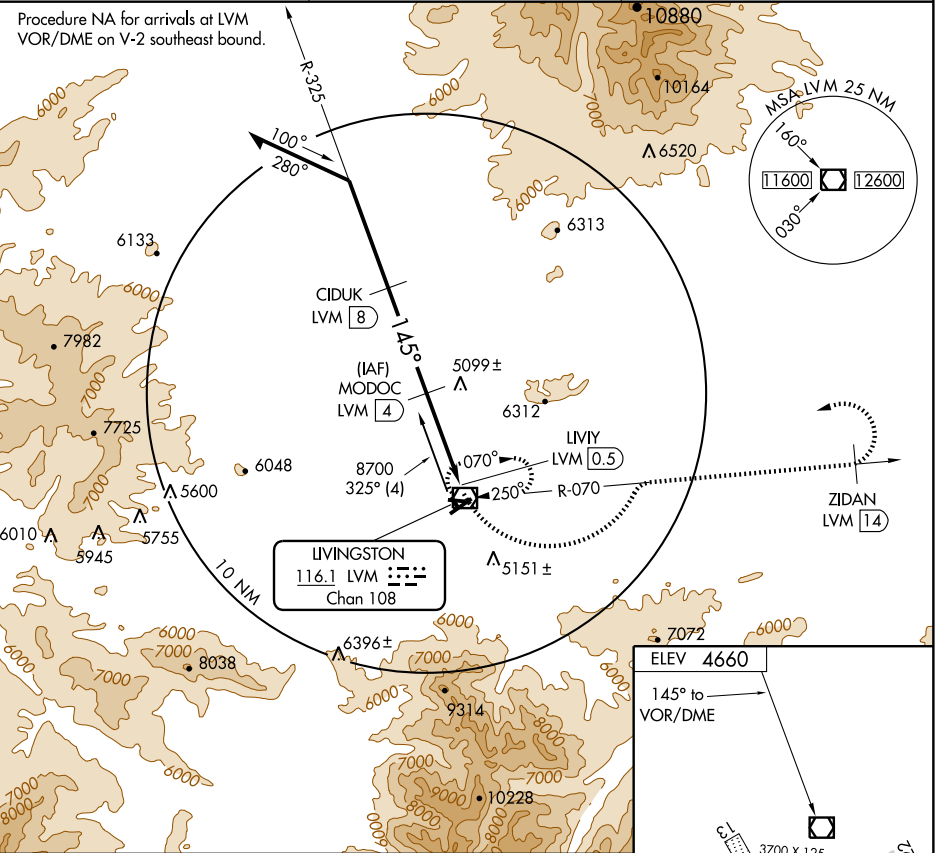
VOR/DME-B

LIVINGSTON/MISSION FIELD (LVM)

▼
▲

MISSED APPROACH: Climbing left turn to 9900 via LVM VOR/DME R-070 to ZIDAN/14 DME and left turn direct LVM VOR/DME and hold.

ASOS 135.275	GREAT FALLS RADIO 122.2	UNICOM 123.0 (CTAF) 0
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CATEGORY	A	B	C	D
CIRCLING	5540-1 880 (900-1)	5540-1¼ 880 (900-1¼)	5540-2½ 880 (900-2½)	5580-3 920 (1000-3)

REIL Rwy 22
MIRL Rwy 4-22 0

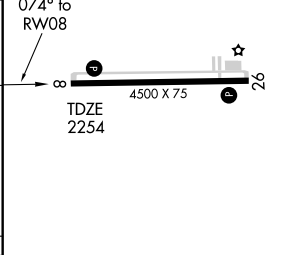
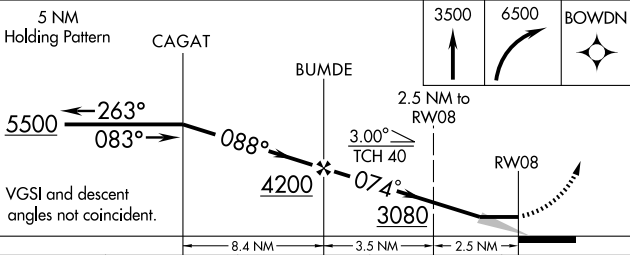
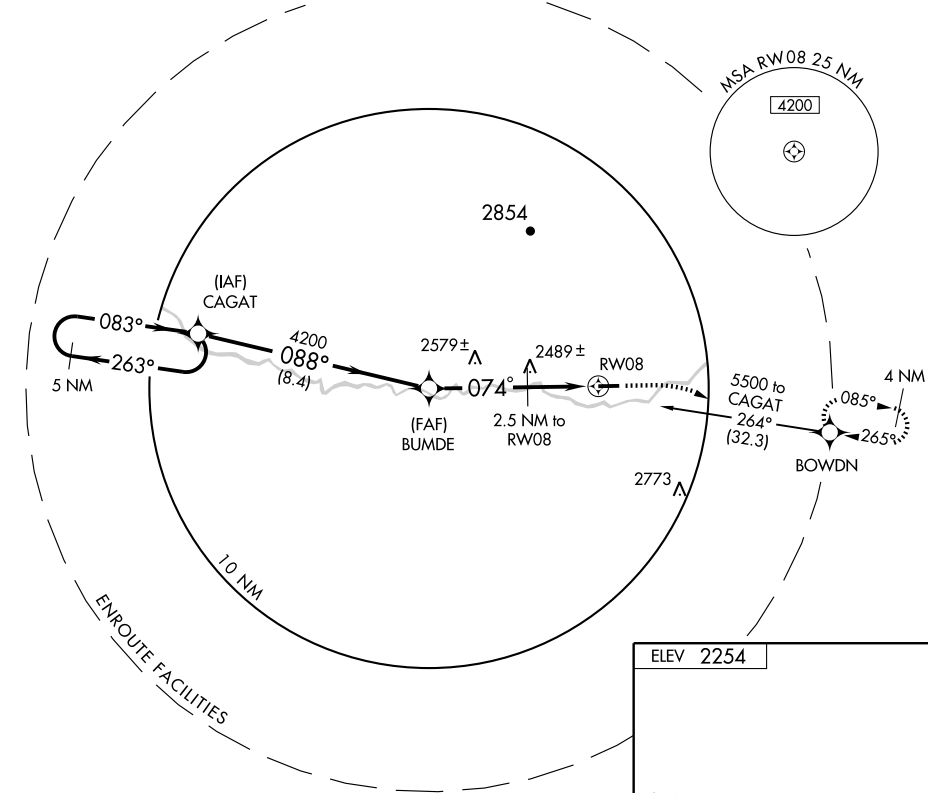
APP CRS	Rwy Idg	4500
074°	TDZE	2254
	Apt Elev	2254

RNAV (GPS) RWY 8

MALTA (M75)

▲ NA	Use Glasgow altimeter setting; when not received procedure not authorized. GPS or RNP- 0.3 required. DME/DME RNP- 0.3 NA.	MISSED APPROACH: Climb to 3500 then climbing right turn to 6500 direct BOWDN WP and hold.
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AWOS-3 122.8	SALT LAKE CITY CENTER 126.85 305.2	UNICOM 122.8(CTAF) 0
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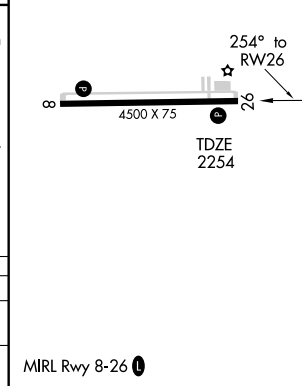
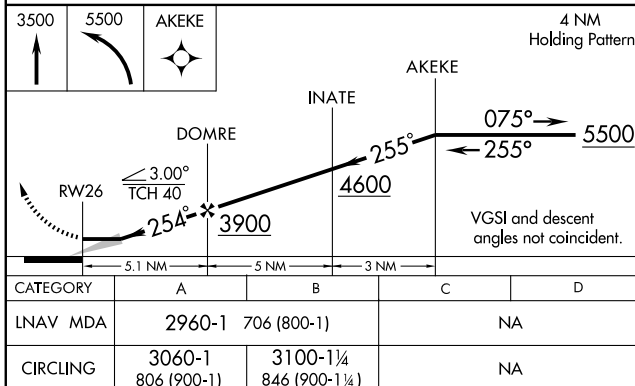
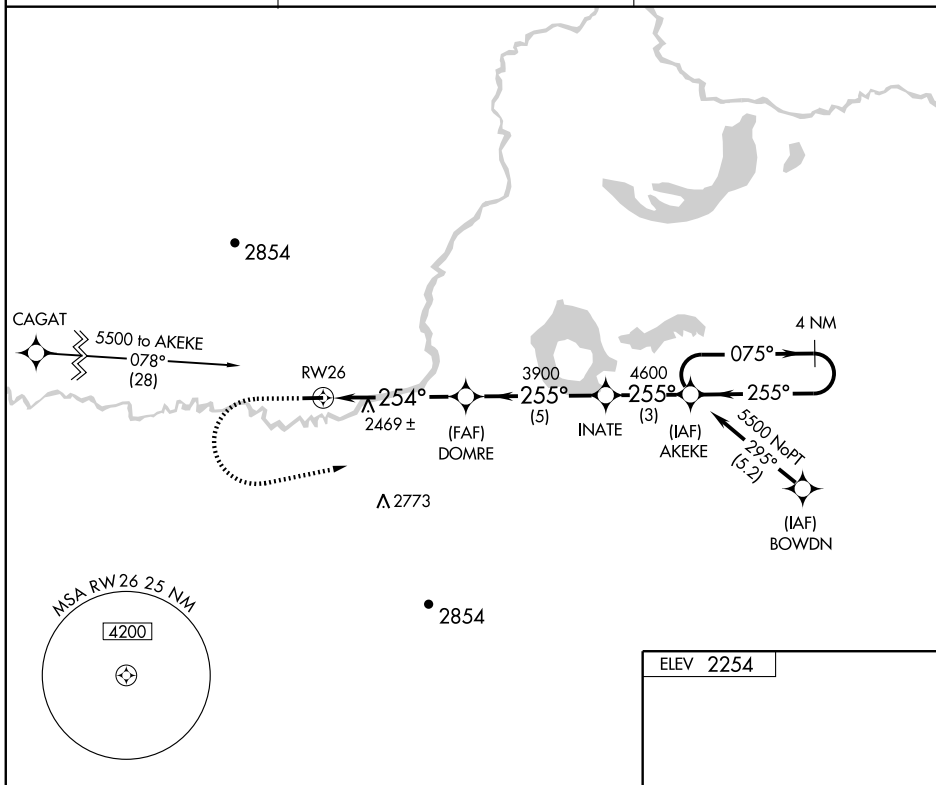


CATEGORY	A	B	C	D
LNNAV MDA	2980-1	726 (800-1)	NA	NA
CIRCLING	3060-1 806 (900-1)	3100-1¼ 846 (900-1¼)	NA	NA

MIRL Rwy 8-26 0

MISSED APPROACH: Climb to 3500 then climbing left turn to 5500 direct AKEKE WP and hold.

SALT LAKE CITY CENTER
126.85 305.2

UNICOM
122.8 (CTAF) **L**

Remain within 10 NM

NDB

4500

237°

057°

3340

1.8 NM

4500

HTN 057°

HTN

320

TDZE 2629

ELEV 2630

D 1.8 NM

REIL Rwy 4, 12, 22 and 30

MRL Rwy 4-22 and 12-30

FAF to MAP 1.8 NM

Knots 60 90 120 150 180

Min:Sec 1:48 1:12 0:54 0:43 0:36

WAAS CH 42600 W04A	APP CRS 040°	Rwy Idg 5680 TDZE 2629 Apt Elev 2630
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RNAV (GPS) RWY 4

MILES CITY/ FRANK WILEY FIELD (MLS)

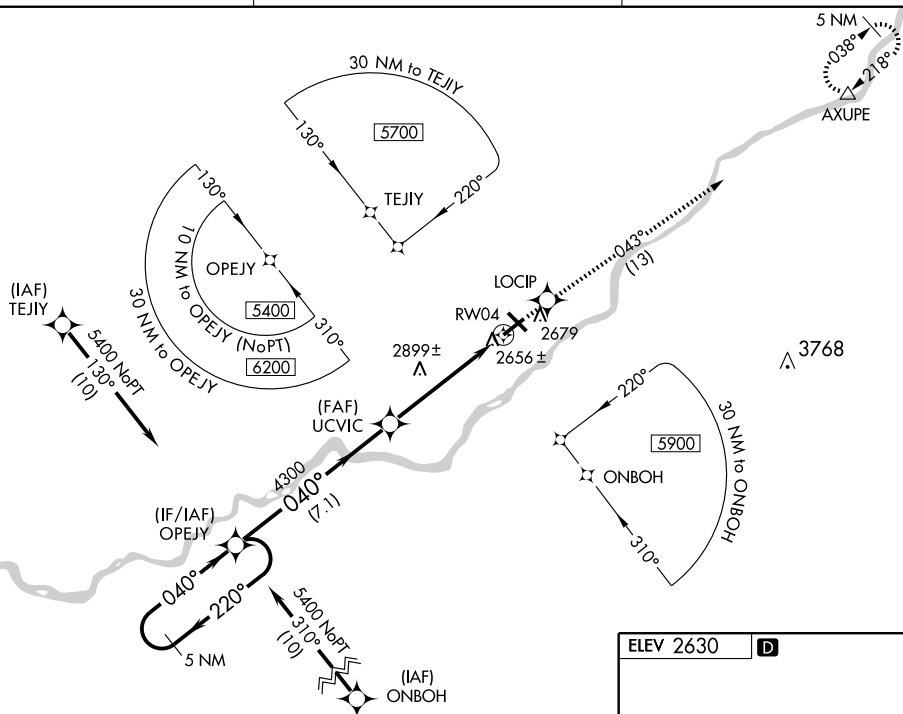
For uncompensated Baro-VNAV systems, LNAV/VNAV NA
below -20°C (-4°F) or above 32°C (111°F).
Visibility reduction by helicopters NA.
DME/DME RNP- 0.3 NA.

MISSED APPROACH: Climb to 6000 direct LOCIP and via 043° track to AXUPE and hold.

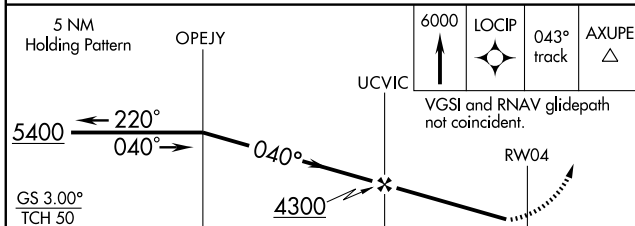
ASOS
135,575

GREAT FALLS RADIO
122.2 255.4

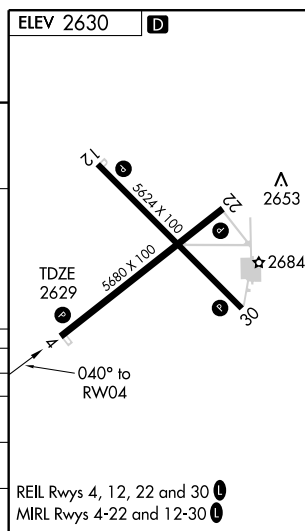
UNICOM
123.0 (CTAF) **L**



NW-1. 08 APR 2010 to 06 MAY 2010



		7.1 NM		5 NM			
CATEGORY	A	B	C	D			
LPV DA	2879-1			250 (300-1)			
LNAV/ VNAV DA	2926-1			297 (300-1)			
LNAV MDA	3160-1	531 (600-1)		3160-1½ 531 (600-1½)		3160-1¾ 531 (600-1¾)	
CIRCLING	3160-1	530 (600-1)		3160-1½ 530 (600-1½)		3180-2 550 (600-2)	

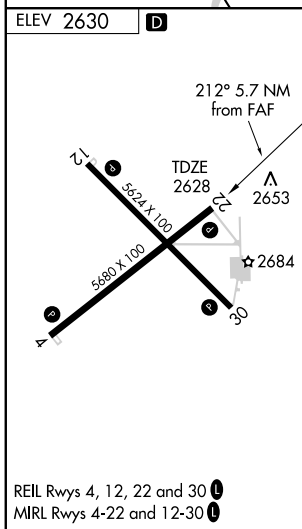
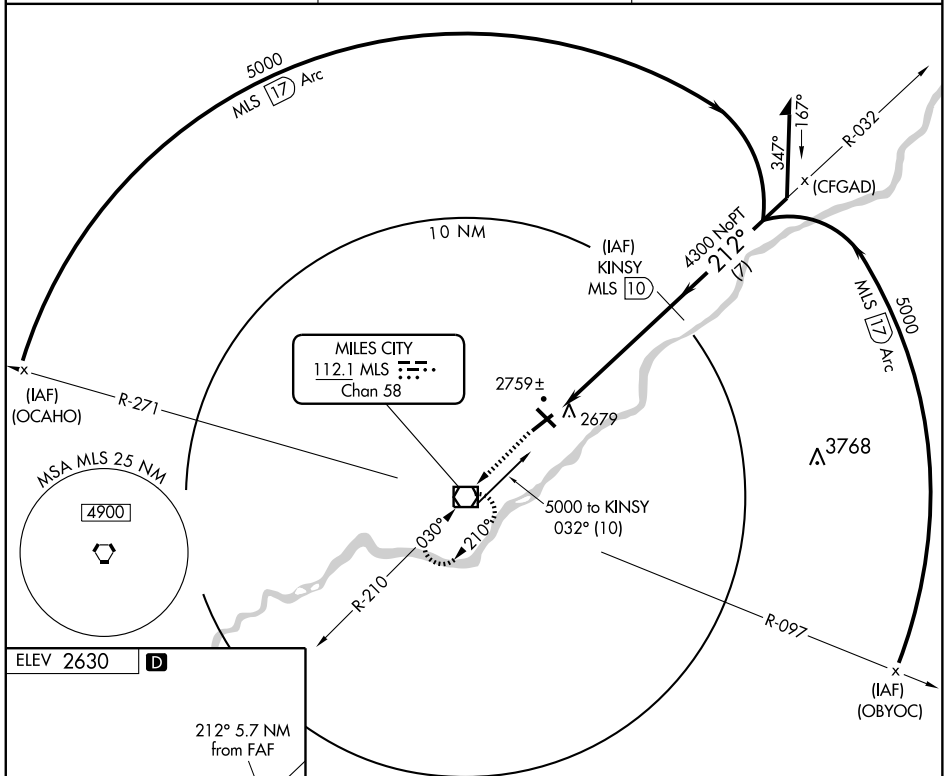


VORTAC MLS 112.1 Chan 58	APP CRS 212°	Rwy Idg TDZE Apt Elev 5680 2628 2630
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VOR/DME or GPS RWY 22

MILES CITY/FRANK WILEY FIELD (MLS)

MISSED APPROACH: Climb direct to MLS VORTAC. Continue climb to 4700 in MLS VORTAC holding pattern.		
ASOS 135.575	GREAT FALLS RADIO 122.2 255.4	UNICOM 123.0 (CTAF) 1



<div> <div>4700</div> <div>MLS</div> <div>112.1</div> </div>				
<div> <div>212° 5.7 NM from FAF</div> <div>TDZE 2628</div> <div>2653</div> <div>2684</div> </div>				
<div> <div>4300</div> <div>MLS</div> <div>5.5</div> <div>4.3</div> <div>1.2</div> <div>4.5 NM</div> </div>				
<div> <div>032°</div> <div>212°</div> <div>4600</div> <div>4300</div> </div>				
<div> <div>Remain within 10 NM</div> </div>				
CATEGORY	A	B	C	D
S-22	3020-1 392 (400-1)			3020-1½ 392 (400-1½)
CIRCLING	3060-1 430 (500-1)	3080-1 450 (500-1)	3100-1½ 470 (500-1½)	3180-2 550 (600-2)

VOR RWY 4

MILES CITY/FRANK WILEY FIELD (MLS)

VORTAC MLS	APP CRS	Rwy Idg	5680
112.1	030°	TDZE	2629
Chan 58		Apt Elev	2630

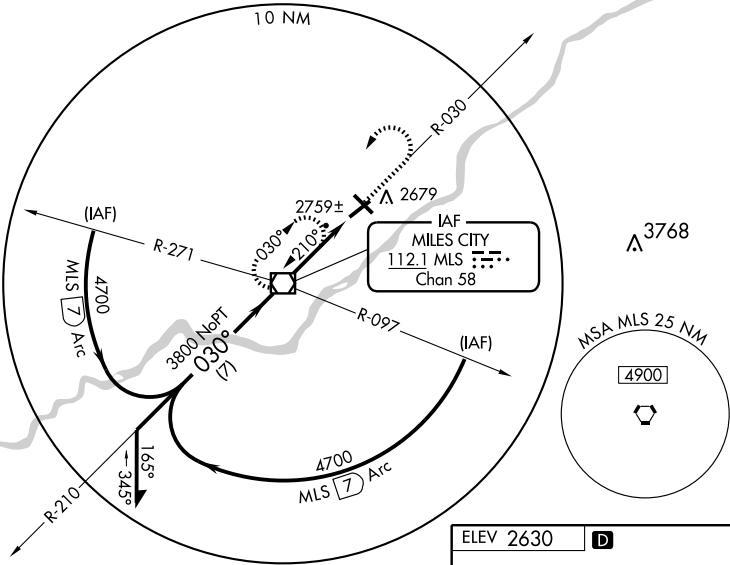
Visibility reduction by helicopters NA.

MISSED APPROACH: Climb to 4700 via MLS R-030 then left turn direct MLS VORTAC and hold.

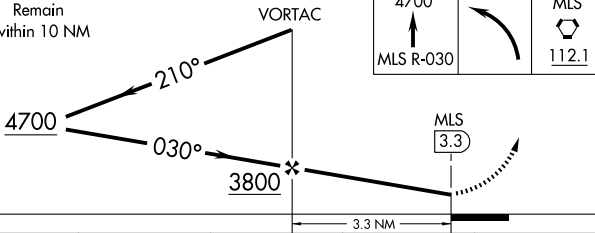
ASOS
135.575

GREAT FALLS RADIO
122.2 255.4

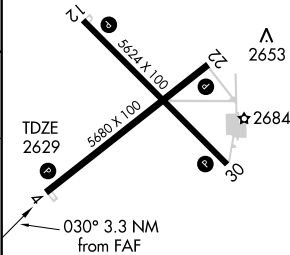
UNICOM
123.0 (CTAF) 0



Remain within 10 NM



ELEV 2630 D



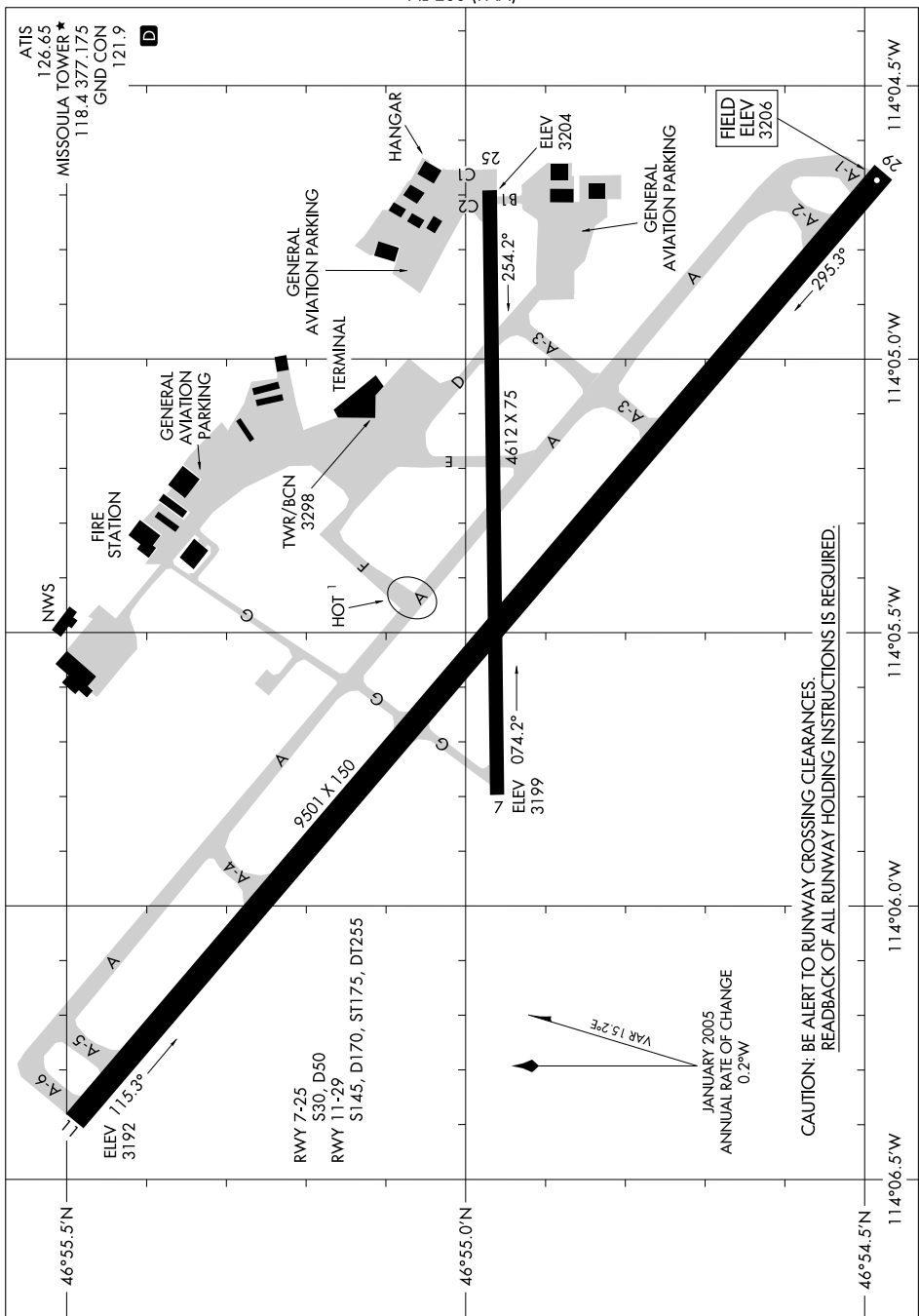
REIL Rwy 4, 12, 22 and 30
MIRL Rwy 4-22 and 12-30

FAF to MAP 3.3 NM					
Knots	60	90	120	150	180
Min:Sec	3:18	2:12	1:39	1:19	1:06

AIRPORT DIAGRAM

AL-266 (FAA)

MISSOULA INTL (MSO)
MISSOULA, MONTANA



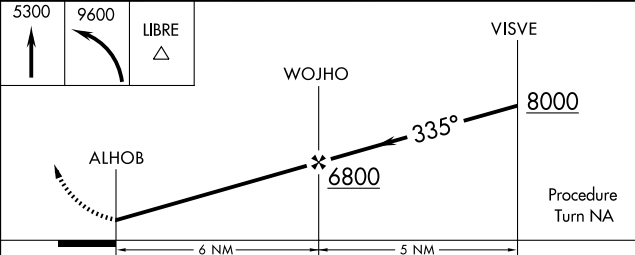
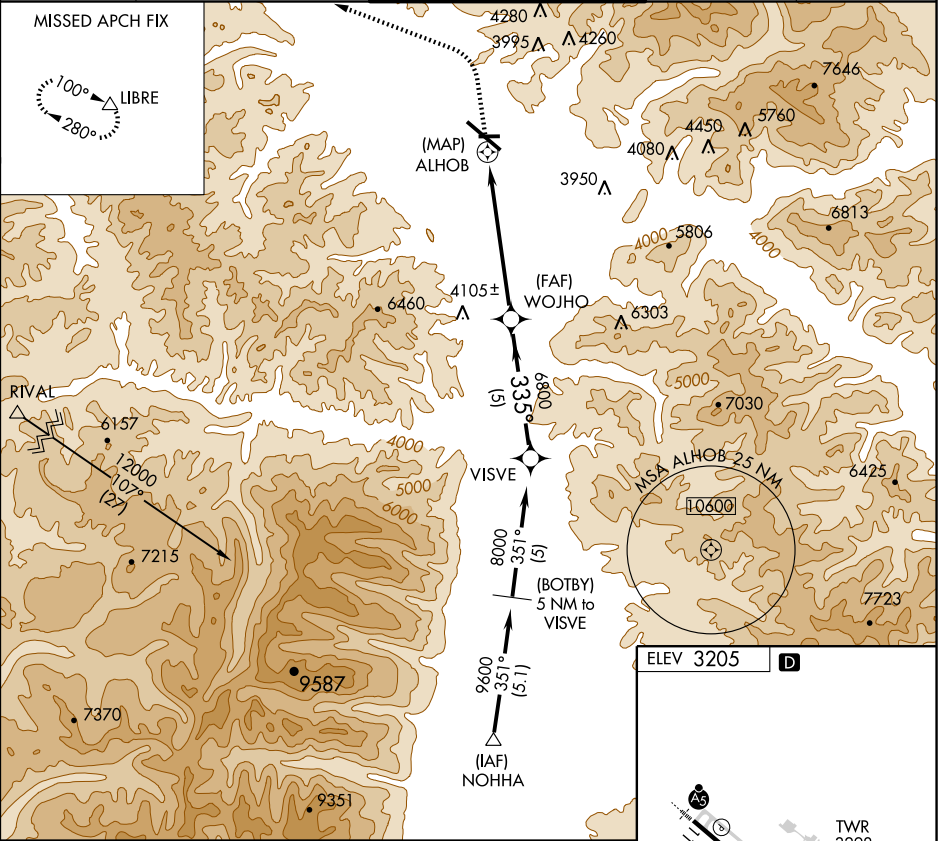
NW-1, 08 APR 2010 to 06 MAY 2010

APP CRS	Rwy Idg	N/A
335°	TDZE	N/A
	Apt Elev	3205

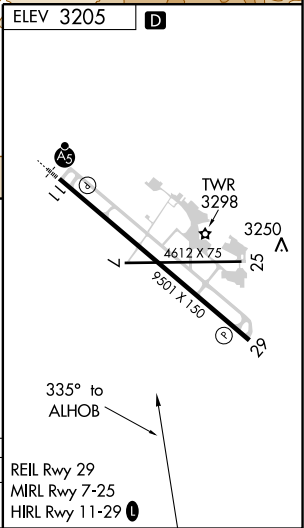

NA

MISSED APPROACH: Climb to 5300 then climbing left turn to 9600 direct LIBRE WP and hold.

ATIS 126.65	SPOKANE APP CON ★ 124.9 298.95	MISSOULA TOWER ★ 118.4 (CTAF) 377.175	GND CON 121.9	UNICOM 122.95
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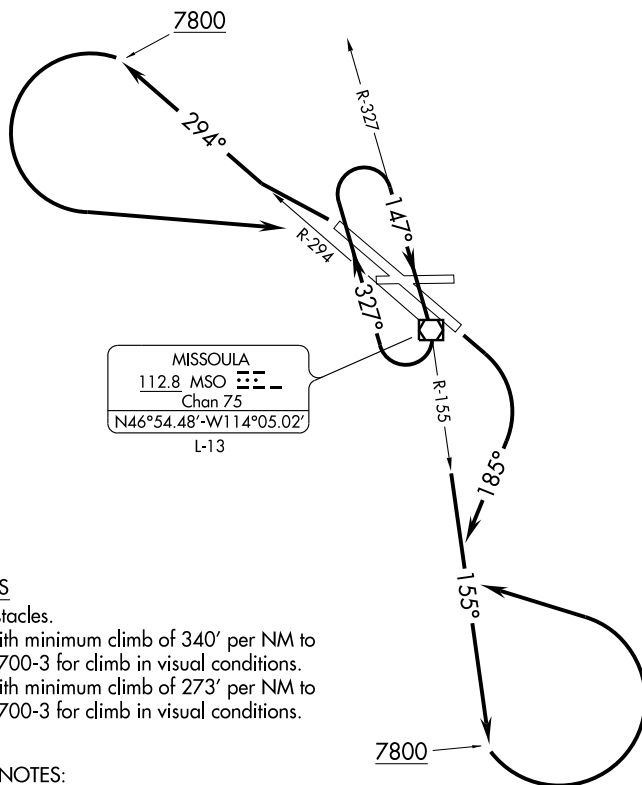


CATEGORY	A	B	C	D
CIRCLING	5120-1¼ 1915 (2000-1¼)	5120-1½ 1915 (2000-1½)	5120-3 1915 (2000-3)	



REIL Rwy 29
MIRL Rwy 7-25
HIRL Rwy 11-29

ATIS 126.65
GND CON
121.9
MISSOULA TOWER ★
118.4 (CTAF) 377.175
SPOKANE DEP CON
124.9 298.95
SALT LAKE CITY CENTER
133.4 285.4

**TAKE-OFF MINIMUMS**

RWY 7, 25: NA- Obstacles.

RWY 11: Standard with minimum climb of 340' per NM to 7800, or 2700-3 for climb in visual conditions.

RWY 29: Standard with minimum climb of 273' per NM to 7800, or 2700-3 for climb in visual conditions.

TAKE-OFF OBSTACLE NOTES:

RWY 11: Tree 505' from DER, 171' left of centerline, 100' AGL/3300' MSL.

Fence 38' from DER, 487' right of centerline, 21' AGL/3213' MSL

RWY 29: Multiple AAOs beginning 6.5 NM from DER, 1.5 NM left of centerline, up to 200' AGL/4639' MSL.

NOTE: Chart not to scale.

**DEPARTURE ROUTE DESCRIPTION**

TAKE-OFF RUNWAY 11: Climbing right turn heading 185° to intercept MSO R-155, southeast bound to 7800, thence. . . .

or, climb in visual conditions to cross MSO VOR/DME southeast bound at or above 5800, continue climb to 7800 via MSO VOR/DME R-155, thence. . . .

TAKE-OFF RUNWAY 29: Climb via MSO R-294 to 7800, then climbing left turn via MSO R-294 to MSO VOR/DME, climb in MSO VOR/DME holding pattern to MEA/MCA for route of flight or, climb in visual conditions to cross MSO VOR/DME southeast bound at or above 5800, continue climb to 7800 via MSO VOR/DME R-155, thence. . . .

. . . .climbing left turn via MSO VOR/DME R-155 to MSO VOR/DME, climb in MSO VOR/DME holding pattern to MEA/MCA for route of flight.

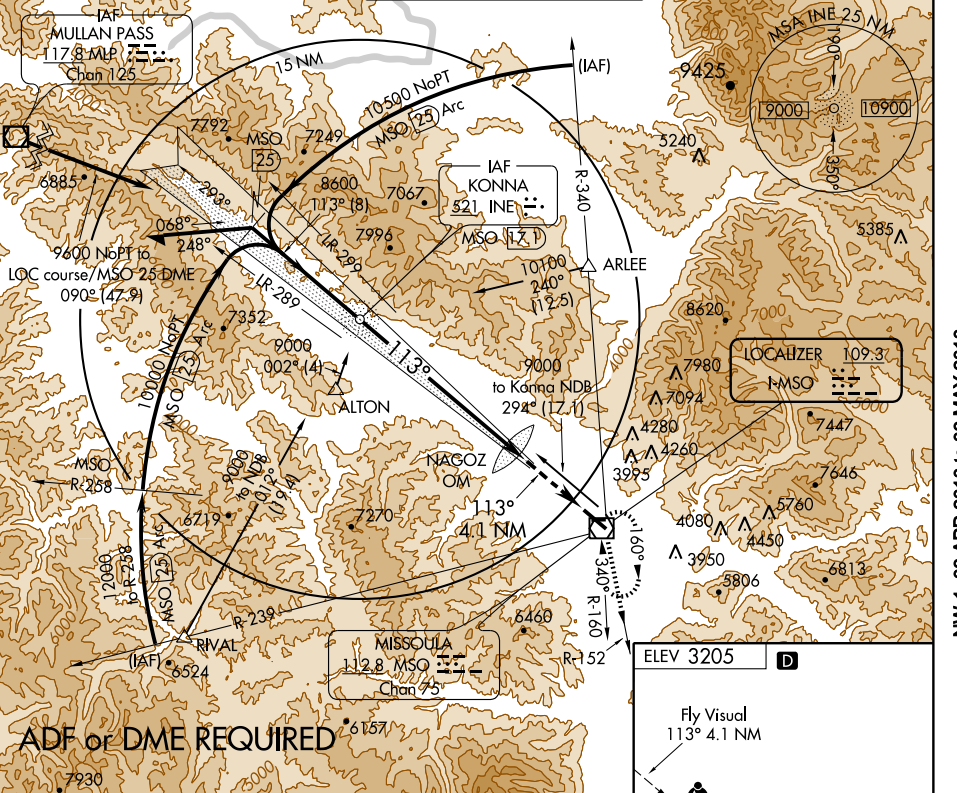
▼
▲

Inoperative table does not apply.

MAISR
AS

MISSED APPROACH: Climb direct MSO VOR/DME then climbing right turn to 8000 outbound on MSO R-152 then climbing left turn to 9000 inbound on the MSO R-152 to MSO VOR/DME and hold.

ATIS 126.65	SPOKANE APP CON ★ 124.9 298.95	MISSOULA TOWER ★ 118.4 (CTAF) 377.175	GND CON 121.9	UNICOM 122.95
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Remain within 10 NM

9000

293°

113°

GS 3.00° TCH 45

8600

10.8 NM

0.9

Fly Visual 113° 4.1 NM

CATEGORY	A	B	C	D
S-ILS 11	4550-5 1350 (1400-5)			
S-LOC 11	NA			
CIRCLING	NA			

FLY VISUAL 113° 4.1 NM

MSO 112.8

8000 MSO R-152 outbound

9000 MSO R-152 inbound

MSO 112.8

TDZE 3200

TWR 3298

4612 X 75

3250

25

29

9501 X 150

REIL Rwy 29

MIRL Rwy 7-25

HIRL Rwy 11-29

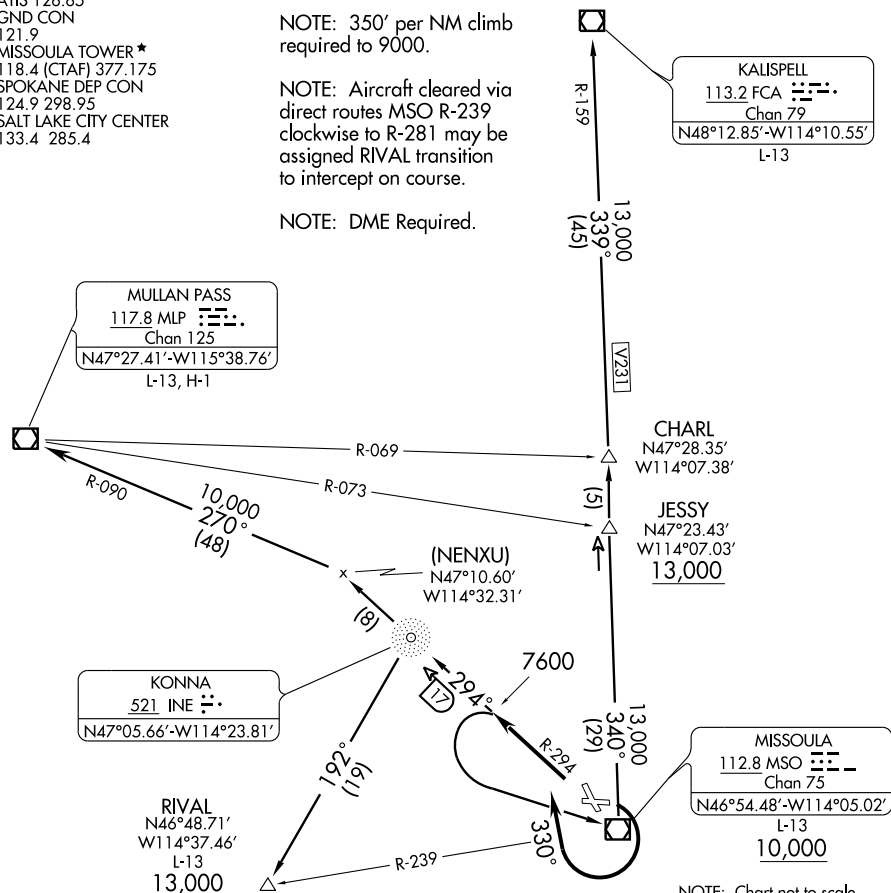
NW-1. 08 APR 2010 to 06 MAY 2010

ATIS 126.65
GND CON
121.9
MISSOULA TOWER *
118.4 (CTAF) 377.175
SPOKANE DEP CON
124.9 298.95
SALT LAKE CITY CENTER
133.4 285.4

NOTE: 350' per NM climb
required to 9000.

NOTE: Aircraft cleared via
direct routes MSO R-239
clockwise to R-281 may be
assigned RIVAL transition
to intercept on course.

NOTE: DME Required.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 7 AND 25: Not authorized.

TAKE-OFF RUNWAY 11: Climbing right turn heading 330° to intercept MSO R-294, then climb to 7600' via MSO R-294, then climb via (transition).

TAKE-OFF RUNWAY 29: Intercept MSO R-294 immediately after departure, then climb to 7600' via MSO R-294, then climb via (transition).

KALISPELL TRANSITION (KONNA2.FCA): After leaving 7600', make a climbing left turn direct MSO VOR/DME, then via V231 to FCA VOR/DME.

MISSOULA TRANSITION (KONNA2.MSO): After leaving 7600', make a climbing left turn direct MSO VOR/DME.

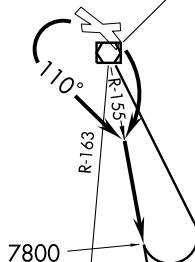
MULLAN PASS TRANSITION (KONNA2.MLP): After reaching 7600', continue on MSO R-294 and MLP R-090 to MLP VOR/DME.

RIVAL TRANSITION (KONNA2.RIVAL): After reaching 7600', continue on MSO R-294 and INE NDB 192° bearing to RIVAL INT.

ATIS 126.65
 GND CON
 121.9
 MISSOULA TOWER*
 118.4 (CTAF) 377.175
 SPOKANE DEP CON
 124.9 298.95
 SALT LAKE CITY CENTER
 133.4 285.4

MISSOULA
 112.8 MSO
 Chan 75
 N46°54.48'-W114°05.02'

L-13
 10,000



VICTO
 N46°34.68'
 W114°00.98'
 11,000

*Approx dist

NOTE: This SID requires a minimum climb of 400' per NM to 11,000'.

NOTE: DME required.

SALMON
 113.5 LKT
 Chan 82
 N45°01.28'-W114°05.05'
 L-13, H-1

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 7: Not authorized.

TAKE-OFF RUNWAY 11: Climbing right turn to intercept MSO R-155, thence....

TAKE-OFF RUNWAY 25 OR 29: Climbing left turn heading 110° to intercept MSO R-155, thence....

....climb to 7800' via MSO R-155; thence climb via (transition).

MISSOULA TRANSITION (MZULA1.MSO): After leaving 7800', make a climbing left turn direct to MSO VOR/DME.

SALMON TRANSITION (MZULA1.LKT): After reaching 7800' continue on MSO R-155 until VICTO INT. Then via 190° heading and V231 to LKT VOR/DME.

RNAV (GPS) Y RWY 11

MISSOULA INTL (MSO)

WAAS CH 65715 W11B	APP CRS 113°	Rwy Idg TDZE Apt Elev 9501 3200 3206
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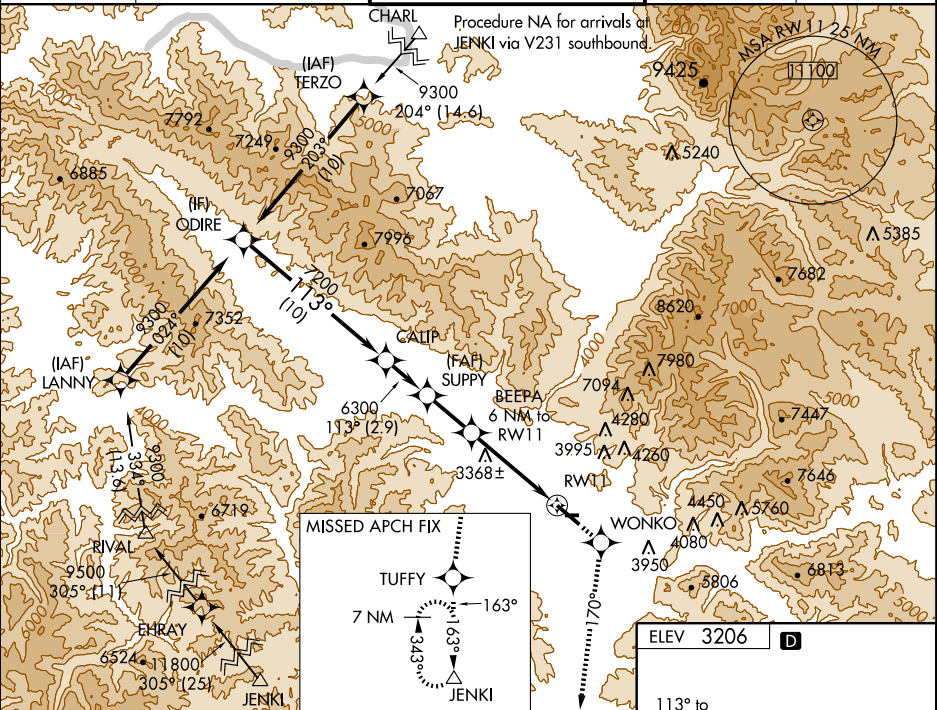
⚠ Inoperative table does not apply to LNAV % Cats. A and B. For inoperative
⚠ MALSR, increase LPV visibility all Cats. to 2 ½ miles. DME/DME RNP-0.3 NA.
Visibility reduction by helicopters NA.
Missed approach requires minimum climb of 290 feet per NM to 8300.

MALSR

A5

MISSED APPROACH: Climb to 12000 direct WONKO and via track 170° to TUFFY and via track 163° to JENKI and hold.

ATIS 126.65	SPOKANE APP CON ★ 124.9 298.95	MISSOULA TOWER ★ 118.4 (CTAF) 0 377.175	GND CON 121.9	UNICOM 122.95
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Procedure Turn NA ODIRE

9300

GS 3.08°
TCH 55

VGSI and RNAV glidepath not coincident.

12000

WONKO

trk 170°

TUFFY

trk 163°

JENKI

113°

7200

6300

5220*

10 NM

2.9 NM

3.1 NM

2.9 NM

3.1 NM

CALIP

SUPPLY

BEEPA 6 NM to RW11

*3.1 NM to RW11

RW11

* LNAV only.

CATEGORY	A	B	C	D
LPV DA#	3896-2 696 (700-2)			
LNAV MDA#	4220-¾ 1020 (1100-¾)	4220-1 1020 (1100-1)	4220-2½	1020 (1100-2½)
LNAV MDA%	5100-1¼ 1900 (2000-1¼)	5100-1½ 1900 (2000-1½)	5100-2½	1900 (2000-2½)
CIRCLING	5100-1¼ 1894 (1900-1¼)	5100-1½ 1894 (1900-1½)	5100-3	1894 (1900-3)

ELEV 3206

D

113° to RW11

TDZE 3200

TWR 3298

4612 X 75

9501 X 150

25

29

REIL Rwy 29

MIRL Rwy 7-25

HIRL Rwy 11-29 **1**

APP CRS	Rwy Idg	9501
294°	TDZE	3205
	Apt Elev	3205

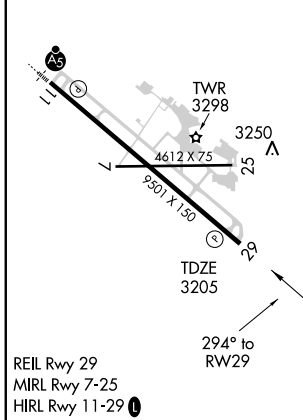
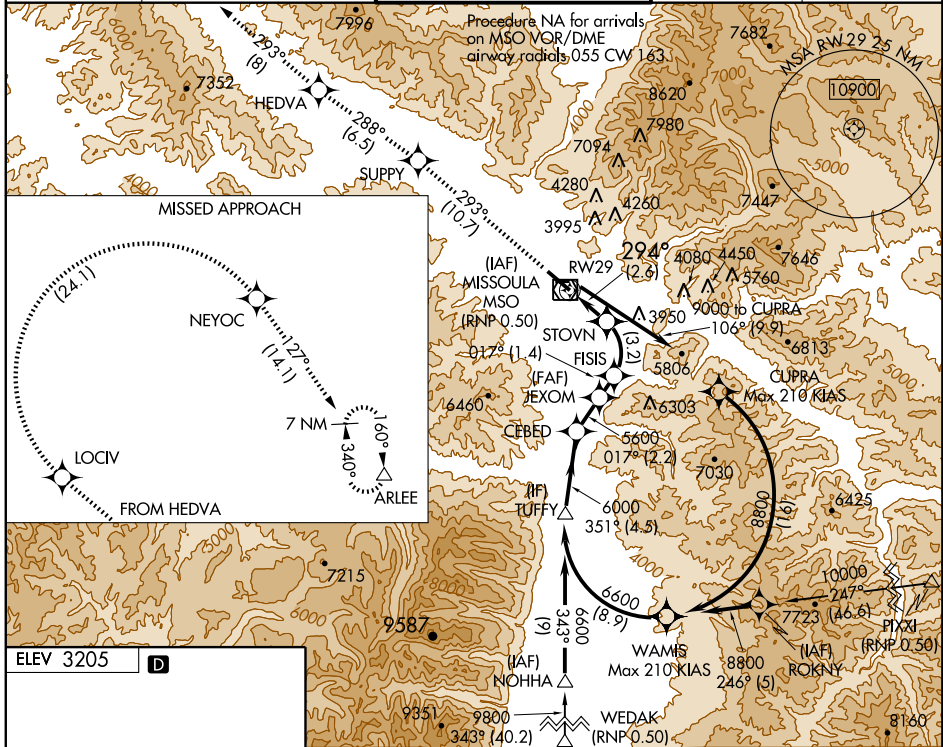
RNAV (RNP) RWY 29

MISSOULA INTL (MSO)

RF and GPS required. When local altimeter setting not received, procedure NA. For uncompensated Baro-VNAV systems, procedure NA below -21°C (-5°F) or above 43°C (109°F).
* Missed approach requires minimum climb of 215 feet per NM to 5000.

MISSED APPROACH: Climb to 11000 via track 293° to SUPPLY, and via track 288° to HEDVA, and via track 293° to LOCIV, and via right turn to NEYOC, and via track 127° to ARLEE and hold.

ATIS	SPOKANE APP CON *	MISSOULA TOWER *	GND CON	UNICOM
126.65	124.9 298.95	118.4 (CTAF) 377.175	121.9	122.95



CATEGORY	A	B	C	D
RNP 0.30 DA*	3523-1	318 (400-1)		
RNP 0.30 DA	3581-1¼	376 (400-1¼)		

SPECIAL AIRCRAFT AND AIRCREW AUTHORIZATION REQUIRED

APP CRS 113°	Rwy Idg TDZE Apt Elev	9501 3200 3206
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RNAV (RNP) Z RWY 11

MISSOULA INTL (MSO)

- ▼** GPS required. Visibility reduction by helicopters NA. For uncompensated Baro-VNAV systems, procedure NA below -21°C (-6°F) or above 43°C (109°F).
▲ For inoperative MALSR increase RNP 0.12 visibility all Cats to 1¼, RNP 0.30 visibility all Cats to 2½.
 ** Missed approach requires minimum climb of 425 feet per NM to 8300.
Missed approach requires minimum climb of 350 feet per NM to 8300, if unable see RNAV (GPS) Y RWY 11.

MALSR
A5

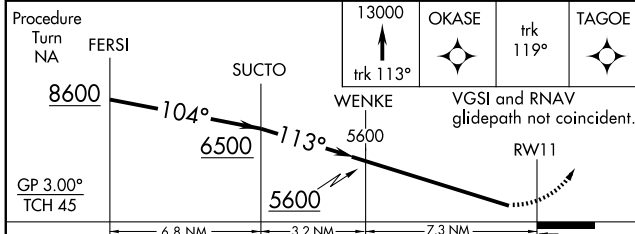
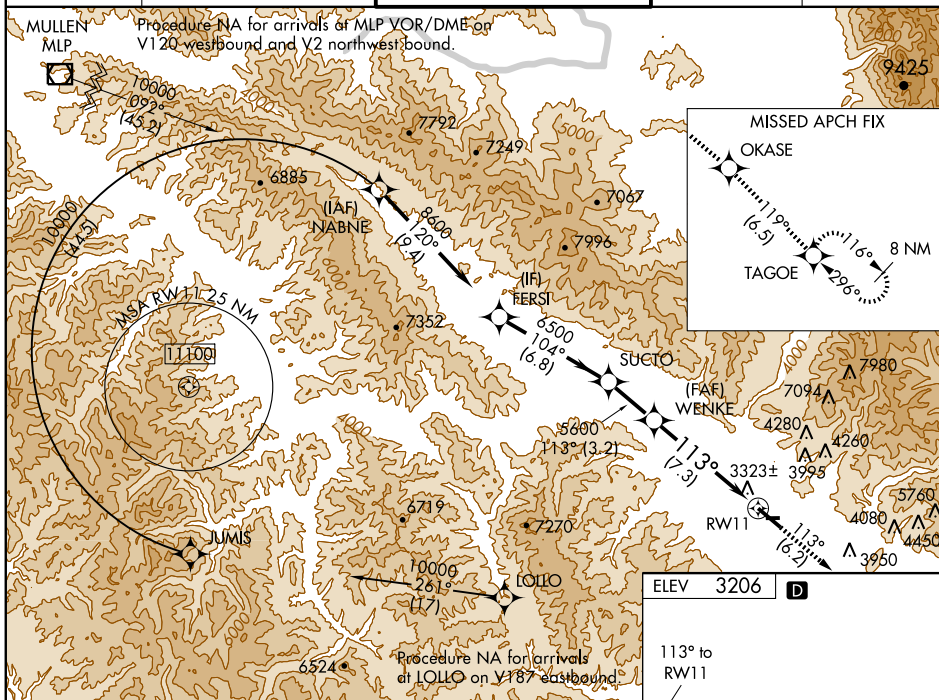
MISSED APPROACH:
Climb to 13000 via track
113° to OKASE, and via
track 119° to TAGOE
and hold, continue
climb-in-hold to 13000.

ATIS
126.65

SPOKANE APP CON ★
124.9 298.95

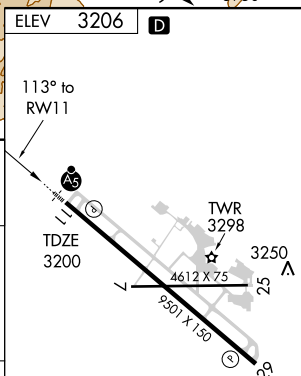
MISSOULA TOWER ★
118.4 (CTAF) **L** 377.175

GND CON
121.9

UNICOM
122.95

CATEGORY	A	B	C	D
RNP 0.12 DA **		3518- $\frac{3}{4}$ 318 (400- $\frac{3}{4}$)		
RNP 0.30 DA ##		3880-2 680 (700-2)		

**SPECIAL AIRCRAFT & AIRCREW
AUTHORIZATION REQUIRED**





REIL Rwy 29
MIRL Rwy 7-25
HIRL Rwy 11-29

NW-1. 08 APR 2010 to 06 MAY 2010

VOR/DME MSO 112.8 Chan 75	APP CRS 105°	Rwy Idg TDZE Apt Elev	N/A N/A 3201
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VOR/DME or GPS-A
MISSOULA INTL (MSO)

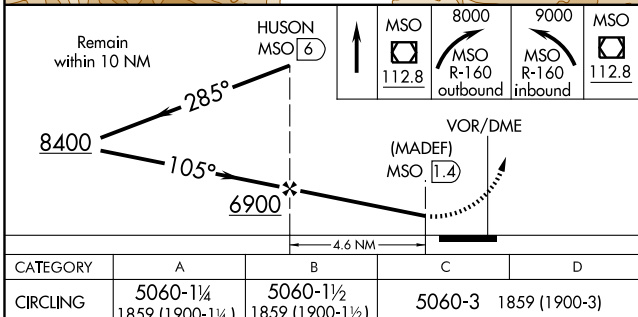
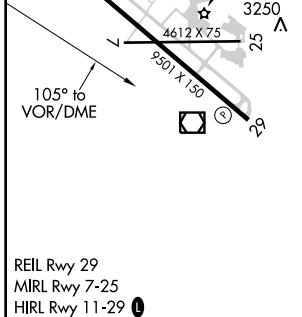
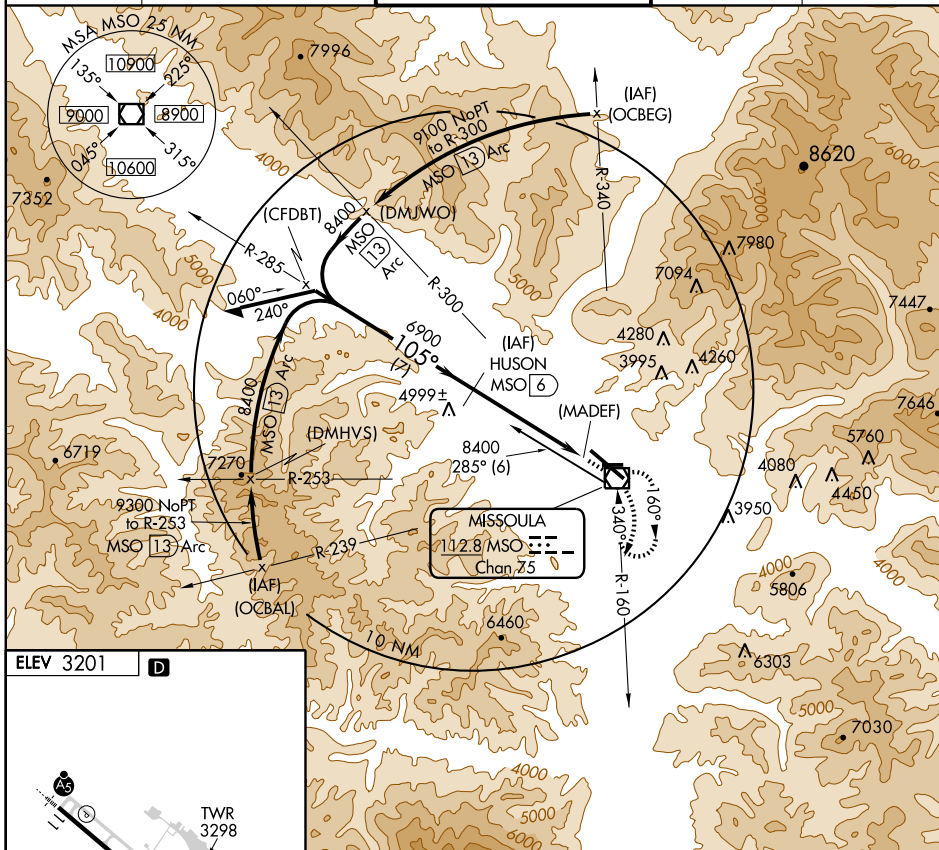
 	<p>MISSED APPROACH: Climb direct to MSO VOR/DME, then climbing right turn to 8000 outbound on R-160 then climbing left turn to 9000 inbound on the R-160 to MSO VOR/DME and hold.</p>
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ATIS
126.65

SPOKANE APP CON ★
124.9 298.95


MISSOULA TOWER ★
118.4 (CTAF) **L** 377.175

GND CON
121.9

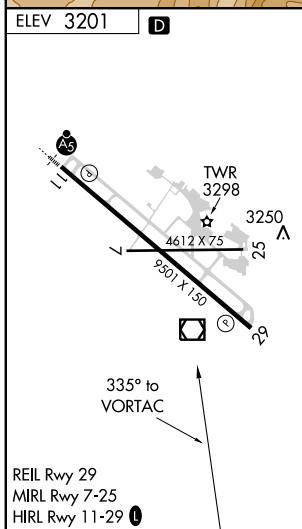
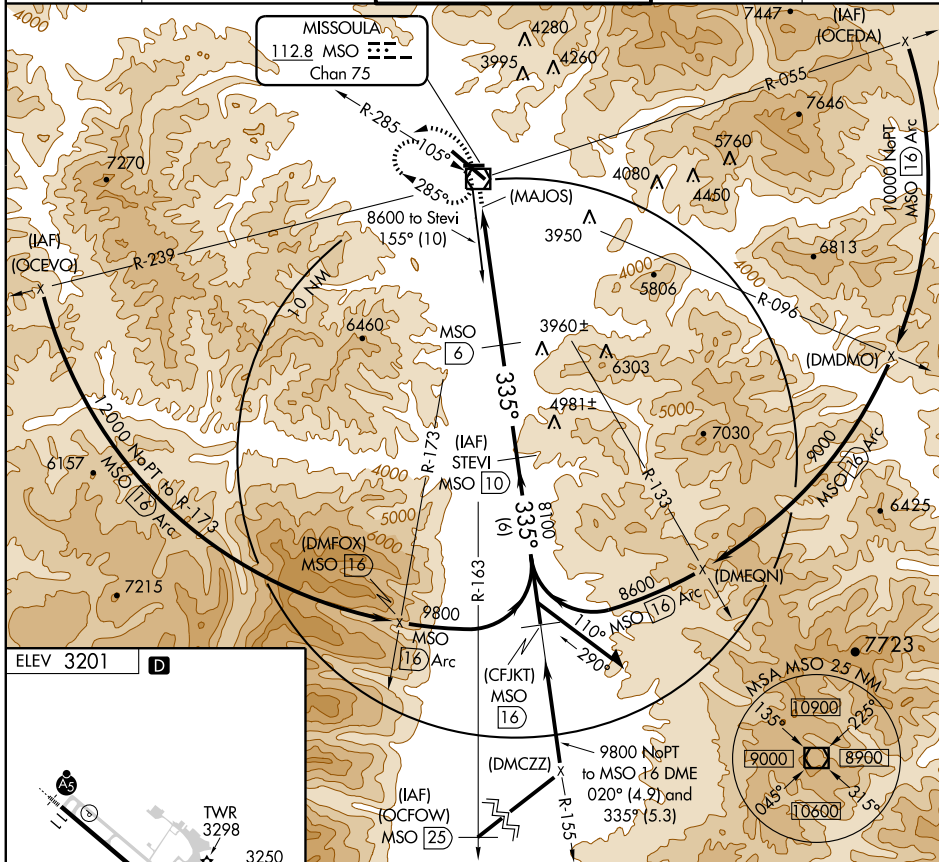
UNICOM
122.95

VOR/DME MSO 112.8 Chan 75	APP CRS 335°	Rwy Idg TDZE Apt Elev	N/A N/A 3201
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VOR/DME or GPS-B MISSOULA INTL (MSO)

	<p>MISSED APPROACH: Climb direct MSO VOR/DME, then climbing left turn to 7500 on R-285 then climbing left turn to 9000 direct MSO VOR/DME and hold.</p>
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ATIS 126.65	SPOKANE APP CON ★ 124.9 298.95	MISSOULA TOWER ★ 118.4 (CTAF) 377.175	GND CON 121.9	UNICOM 122.95
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<p>↑</p> <p>MSO 112.8</p> <p>7500 MSO R-285</p> <p>9000 MSO 112.8</p> <p>STEV MSO 10</p> <p>Remain within 10 NM</p> <p>155°</p> <p>335°</p> <p>8600</p> <p>8100</p> <p>6500</p> <p>1 NM 5 NM 4 NM</p>	<p>VOR/DME</p> <p>(MAJOS) MSO 1</p> <p>MSO 6</p> <p>6500</p> <p>8100</p>	<p>CATEGORY</p> <p>A</p> <p>4500-1½</p> <p>1299 (1300-1¼)</p>	<p>B</p> <p>4500-1½</p> <p>1299 (1300-1½)</p>	<p>C</p> <p>4600-3</p> <p>1399 (1400-3)</p>	<p>D</p> <p>4740-3</p> <p>1539 (1600-3)</p>
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APP CRS	Rwy Idg	N/A
302°	TDZE	N/A
	Apt Elev	2250

RNAV (GPS)-A

PLENTYWOOD/ SHER-WOOD (P'WD)

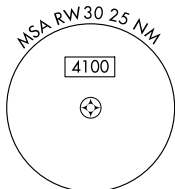
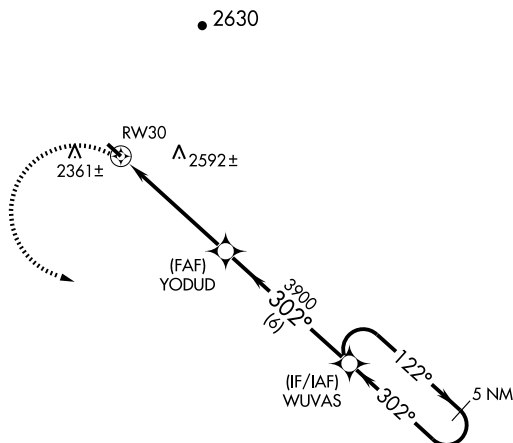


Procedure NA at night. DME/DME RNP- 0.3 NA.
Use Sloulin Fld Intl, ND altimeter setting, if not received, use Wolf Point/
L.M. Clayton altimeter setting and increase all MDAs 40 feet.

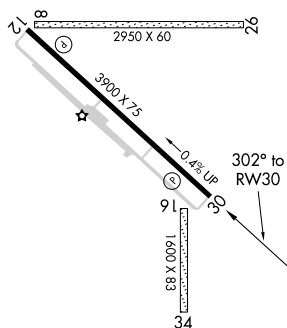
MISSED APPROACH: Climbing left turn to 5000 direct WUVAS and hold.

SALT LAKE CENTER
126.85 305.2

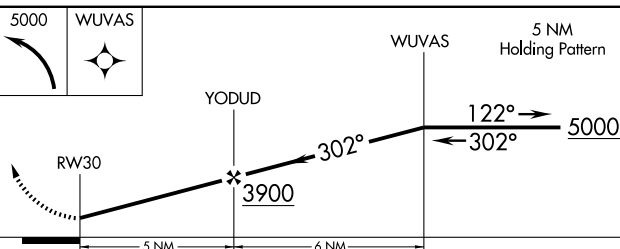
UNICOM

122.8 (CTAF) **L**

ELEV 2250



Procedure NA for arrivals at ISN VORTAC via V430 eastbound.



CATEGORY

A

A	B
2840-1	590 (600-1)

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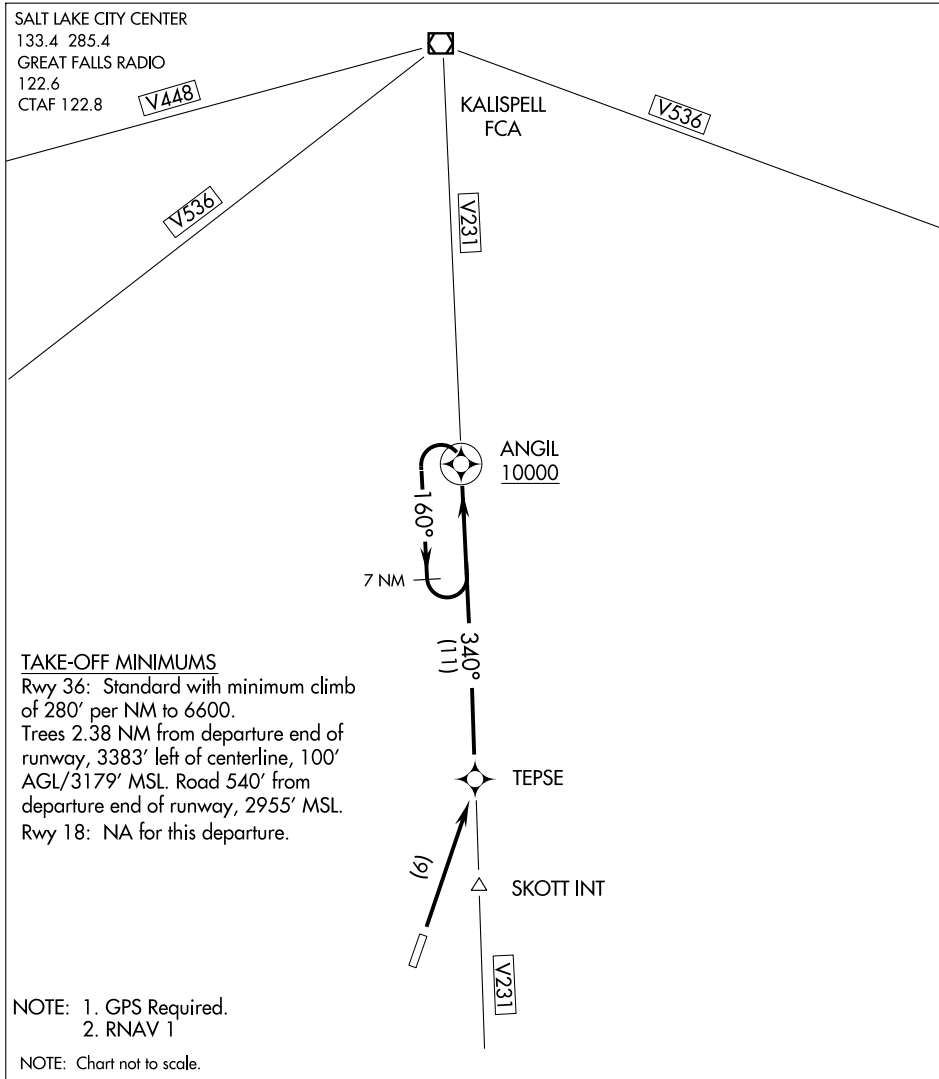
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NA

MIRL Rwy 12-30 **L**

(ANGIL1.ANGIL) 07074 SL-9529 (FAA)
ANGIL ONE DEPARTURE (RNAV) (OBSTACLE)

POLSON (8S1)
POLSON, MONTANA



NW-1, 08 APR 2010 to 06 MAY 2010



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 36: Climb direct to TEPSE WP, then via 340° track to ANGIL WP,
Thence....

....Climb in the ANGIL WP holding pattern to cross ANGIL WP at or above 10,000 prior
to proceeding on course.

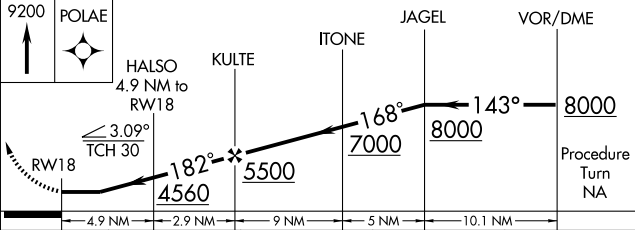
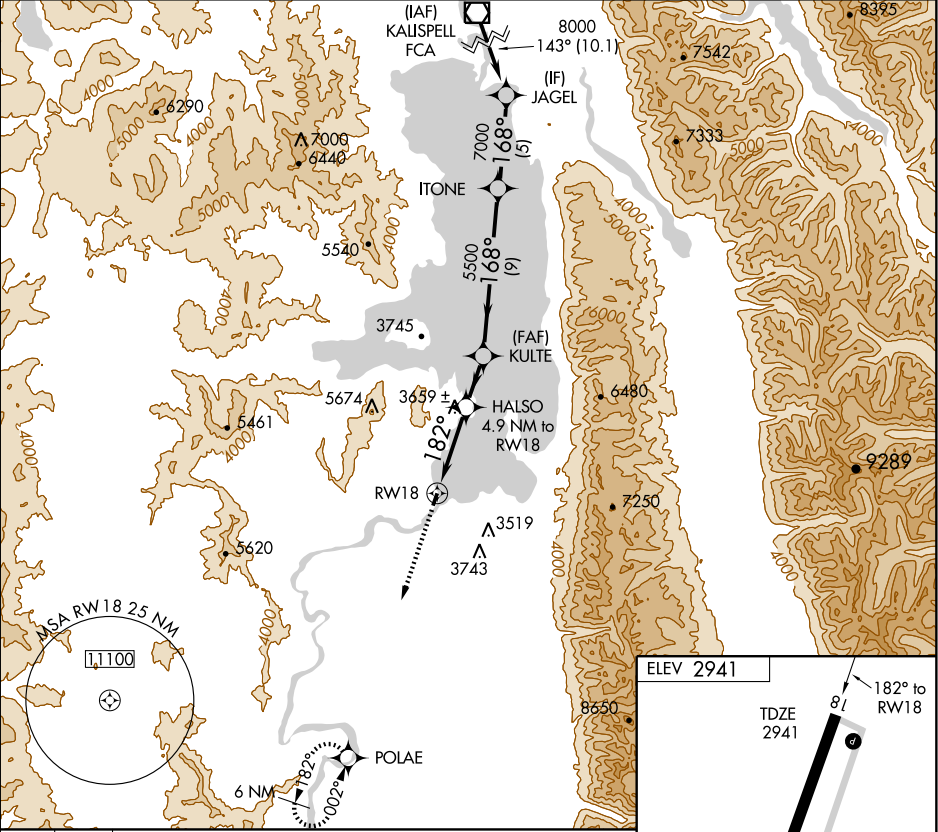
APP CRS	Rwy Idg	4195
182°	TDZE	2941
	Apt Elev	2941

RNAV (GPS) RWY 18

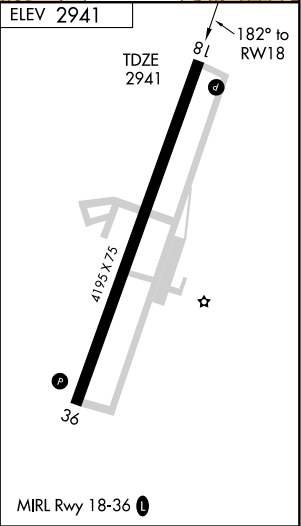
POLSON (8S1)

<div><div>▼</div><div>NA</div></div> <div>Procedure NA at night. DME/DME RNP- 0.3 NA. Use Glacier Park Intl altimeter setting.</div>	MISSED APPROACH: Climb to 9200 direct POLAE and hold.
--	---

GLACIER PARK INTL ASOS 132.625	SALT LAKE CENTER 133.4 285.4	UNICOM 122.8 (CTAF) 0
-----------------------------------	---------------------------------	--------------------------



CATEGORY	A	B	C	D
LNAV MDA	4480-1¼ 1539 (1600-1¼)	4480-1½ 1539 (1600-1½)	NA	NA
CIRCLING	4480-1¼ 1539 (1600-1¼)	4480-1½ 1539 (1600-1½)	NA	NA



APP CRS
013°

Rwy Idg
TDZE
Apt Elev

4195
2941
2941

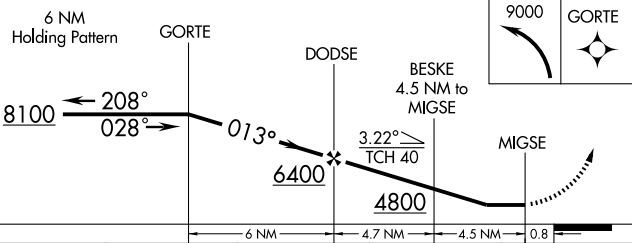
RNAV (GPS) RWY 36

POLSON (8S1)

Procedure NA at night.
DME/DME RNP-0.3 NA.
Use Glacier Park Intl altimeter setting.

MISSED APPROACH: Climbing left turn to 9000 direct
GORTE WP and hold.

GLACIER PARK INTL ASOS 132.625	SALT LAKE CENTER 133.4 285.4	UNICOM 122.8 (CTAF) 0
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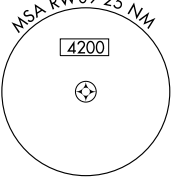
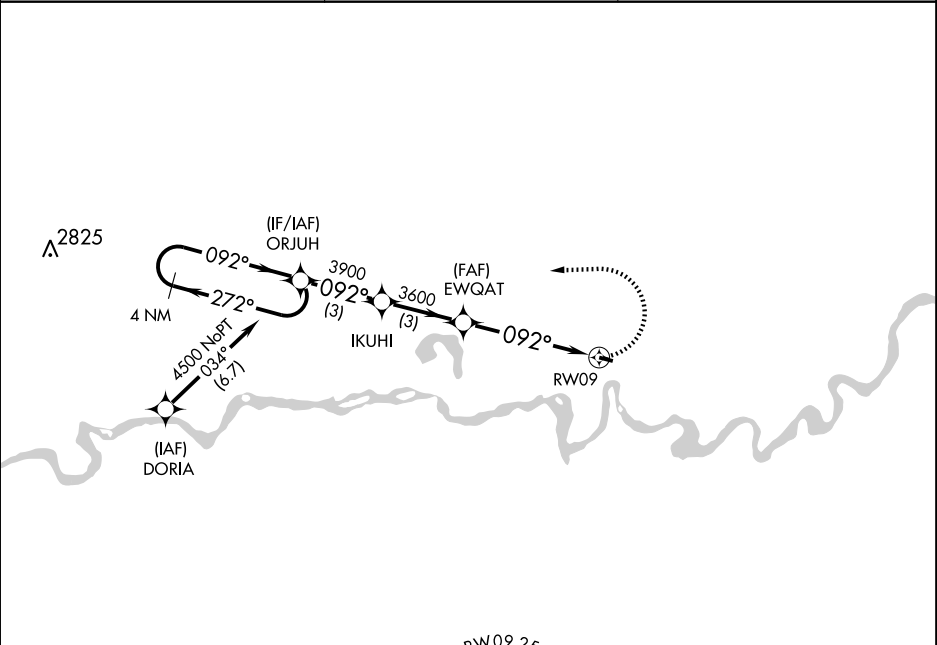
CATEGORY	A	B	C	D
LNNAV	4340-1¼ 1399 (1400-1¼)	4340-1½ 1399 (1400-1½)	NA	
CIRCLING	4340-1¼ 1399 (1400-1¼)	4340-1½ 1399 (1400-1½)	NA	

APP CRS 092°	Rwy Idg TDZE Apt Elev	3030 2005 2005
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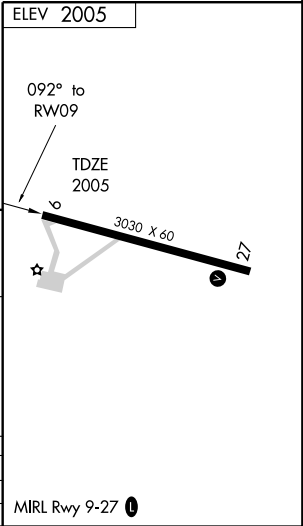
RNAV (GPS) RWY 9
POPLAR (42S)

▲ NA Use Wolf Point altimeter setting. GPS or RNP- 0.3 required. DME/DME RNP- 0.3 NA.	MISSED APPROACH: Climbing left turn to 4500 direct ORJUH WP and hold.
---	--

WOLF POINT ASOS 118.325	SALT LAKE CENTER 126.85 305.2	UNICOM 122.8 (CTAF) 0
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4 NM Holding Pattern				
CATEGORY	A	B	C	D
LNAV MDA	2480-1	475 (500-1)	NA	
CIRCLING	2500-1	495 (500-1)	NA	



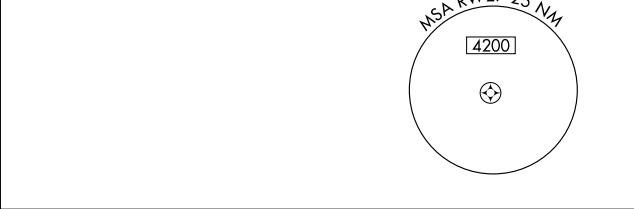
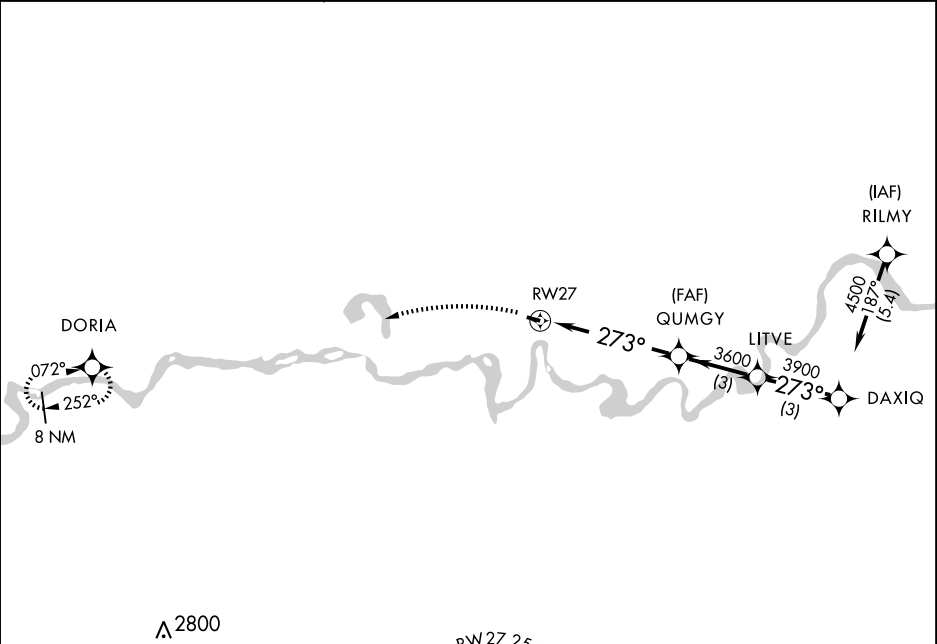
APP CRS 273°	Rwy Idg TDZE Apt Elev	3030 2005 2005
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RNAV (GPS) RWY 27
POPLAR (42S)

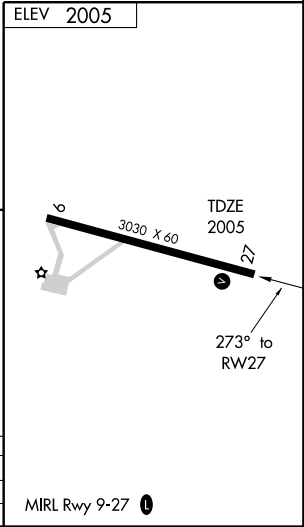
▲ NA Use Wolf Point altimeter setting.
GPS or RNP-0.3 required. DME/DME RNP-0.3 not authorized.

MISSED APPROACH: Climbing left turn to 6000 direct DORIA WP and hold.

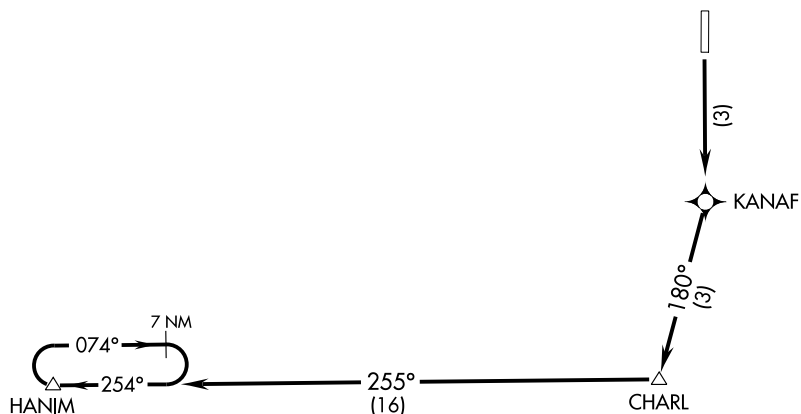
WOLF POINT ASOS 118.325	SALT LAKE CENTER 126.85 305.2	UNICOM 122.8 (CTAF) 0
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6000	DORIA	Procedure Turn NA			
RW27		QUMGY	LITVE	DAXIQ	
		3600	3900	4500	
2.94° TCH 40		VGSI and descent angles not coincident.			
5 NM		3 NM	3 NM		
CATEGORY	A	B	C	D	
LNAV MDA	2460-1	455 (500-1)	NA		
CIRCLING	2500-1	495 (500-1)	NA		



SALT LAKE CITY CENTER
133.4 285.4
GREAT FALLS RADIO
122.6
CTAF 122.8



NOTE: RNAV 1.

NOTE: GPS required.

TAKE-OFF MINIMUMS:

Rwy 16: Standard.

Rwy 34: NA. See RONAN DEPARTURE.

TAKE-OFF OBSTACLE NOTE:

Rwy 16: Tree 485' from DER, 386' left of centerline, 50' AGL/3149' MSL.

NOTE: Chart not to scale



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 16: Climb to 13000 direct KANAF and via track 180° to CHARL and via track 255° to HANIM and hold, continue climb-in-hold to 13000 before proceeding on course.

WAAS CH 45814 W16A	APP CRS 165°	Rwy ldg TDZE Apt Elev 4800 3086 3086
--	------------------------	--

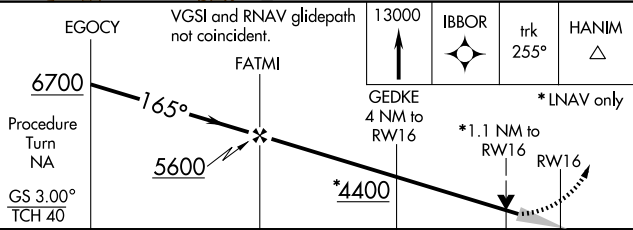
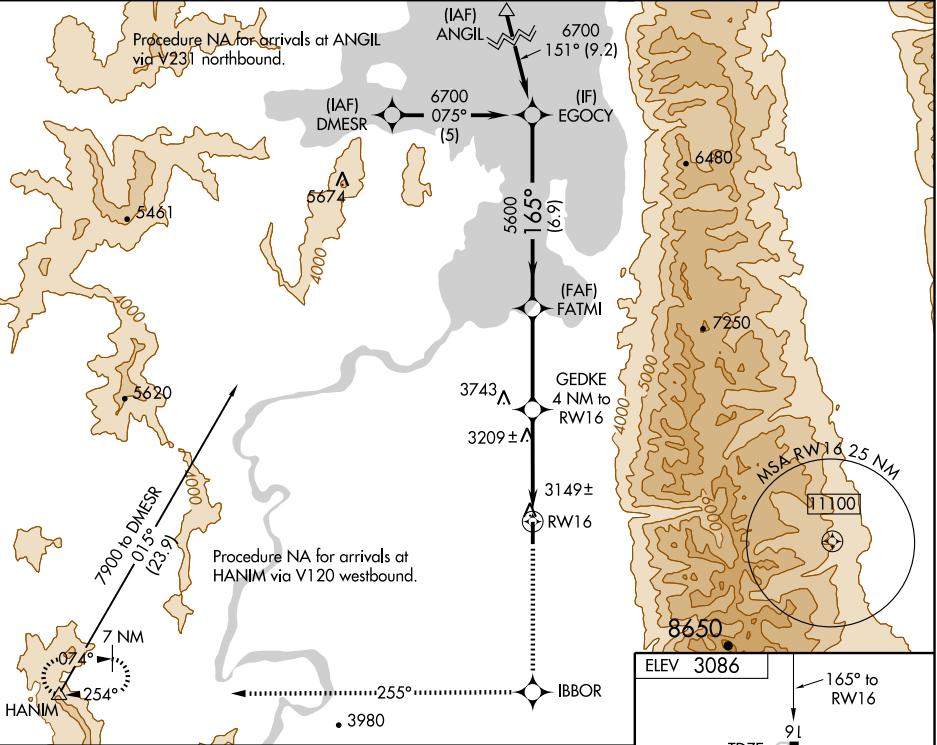
RNAV (GPS) RWY 16

RONAN (7S)

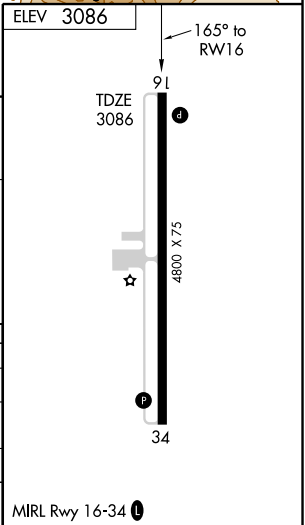
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -21°C (-5°F) or above 54°C (130°F).
 Circling NA east of Rwy 16 and 34. DME/DME RNP- 0.3 NA.

MISSED APPROACH: Climb to 13000 direct IBBOR and via track 255° to HANIM and hold, continue climb-in-hold to 13000.

AWOS-3 122.8	SALT LAKE CITY CENTER 133.4 285.4	UNICOM 122.8 (CTAF)
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CATEGORY		A	B	C	D
LPV	DA	3386-1	300 (300-1)		NA
LNAV/VNAV	DA	3531-1½	445 (500-1½)		NA
LNAV	MDA	3460-1	374 (400-1)		NA
CIRCLING		3460-1 374 (400-1)	3540-1 454 (500-1)		NA



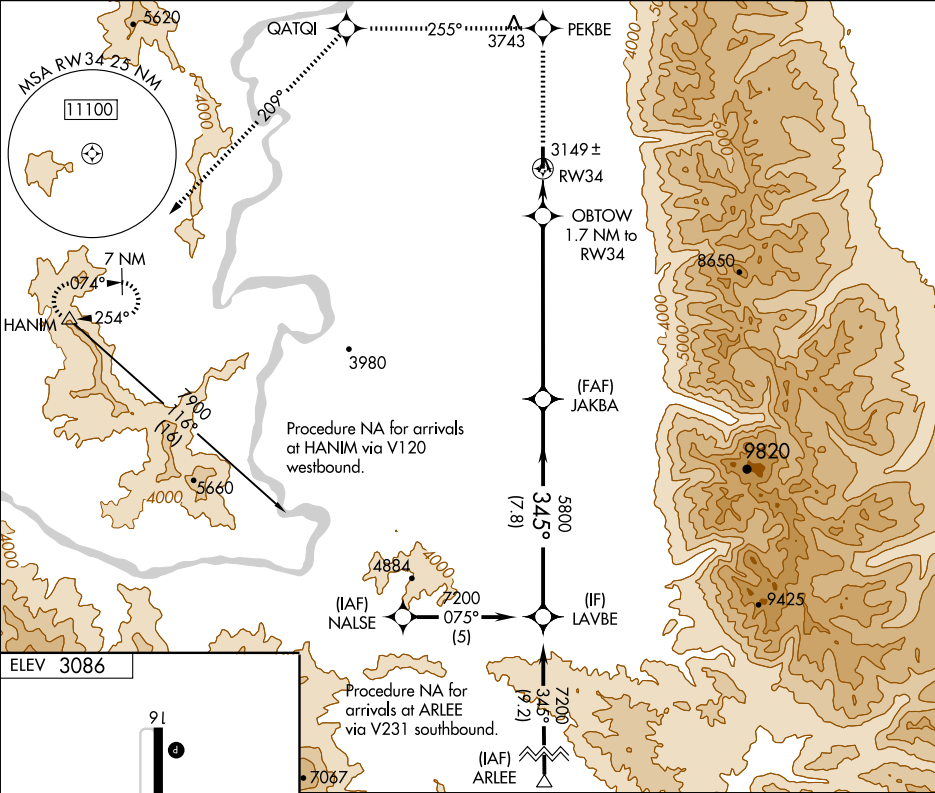
NW-1. 08 APR 2010 to 06 MAY 2010

WAAS CH 86614 W34A	APP CRS 345°	Rwy Idg TDZE Apt Elev	4800 3081 3086
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RNAV (GPS) RWY 34
RONAN (7S0)

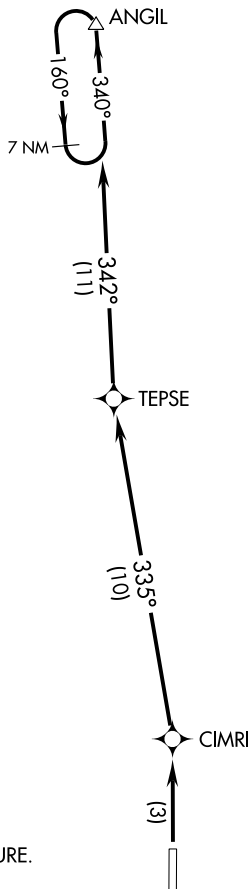
Circling NA east of Rws 16 and 34. DME/DME RNP-0.3 NA.	MISSED APPROACH: Climb to 13000 direct PEKBE and via track 255° to QATQI and via track 209° to HANIM and hold, continue climb-in-hold to 13000.
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AWOS-3 122.8	SALT LAKE CITY CENTER 133.4 285.4	UNICOM 122.8 (CTAF) 0
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ELEV 3086		Procedure NA for arrivals at ARLIE via V231 southbound.	
		VGS and RNAV glidepaths not coincident.	
13000	PEKBE	QATQI	HANIM
↑	trk 255°	trk 209°	△
* LNAV only		OBTOW 1.7 NM to RW34	
RW34		3660*	
1 NM		0.7 NM	
6.5 NM		7.8 NM	
CATEGORY		A	
LPV DA		3392-1 311 (400-1)	
LNAV MDA		3400-1 319 (400-1)	
CIRCLING		3460-1 374 (400-1)	
		3540-1 454 (500-1)	
		NA	

SALT LAKE CITY CENTER
133.4 285.4
GREAT FALLS RADIO
122.6
CTAF 122.8



NOTE: RNAV 1.

NOTE: GPS required.

TAKE-OFF MINIMUMS:

Rwy 16: NA. See HANIM ONE DEPARTURE.

Rwy 34: Standard.

TAKE-OFF OBSTACLE NOTES:

Rwy 34: Building 158' from DER, 370' left of centerline, 40' AGL/3130' MSL.

Tree 1358' from DER, 556' left of centerline, 50' AGL/3149' MSL.

NOTE: Chart not to scale





DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 34: Climb to 10000 direct CIMRI and via track 335° to TEPSE and via track 342° to ANGIL and hold, continue climb-in-hold to appropriate MEA before proceeding on course.

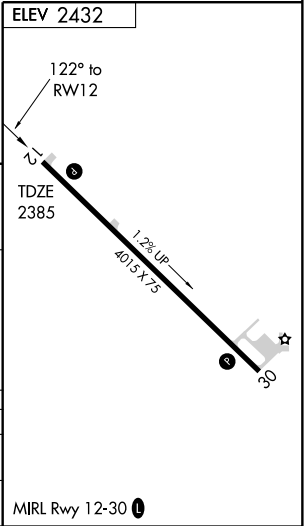
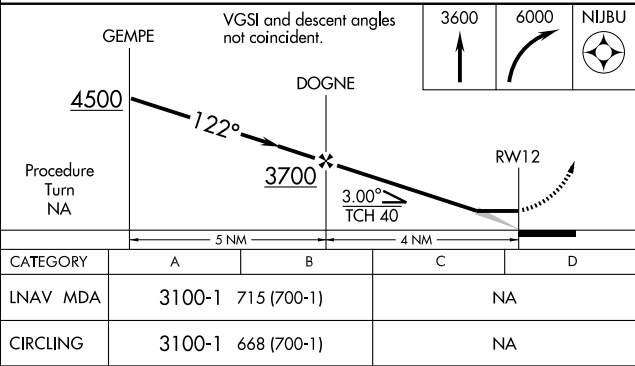
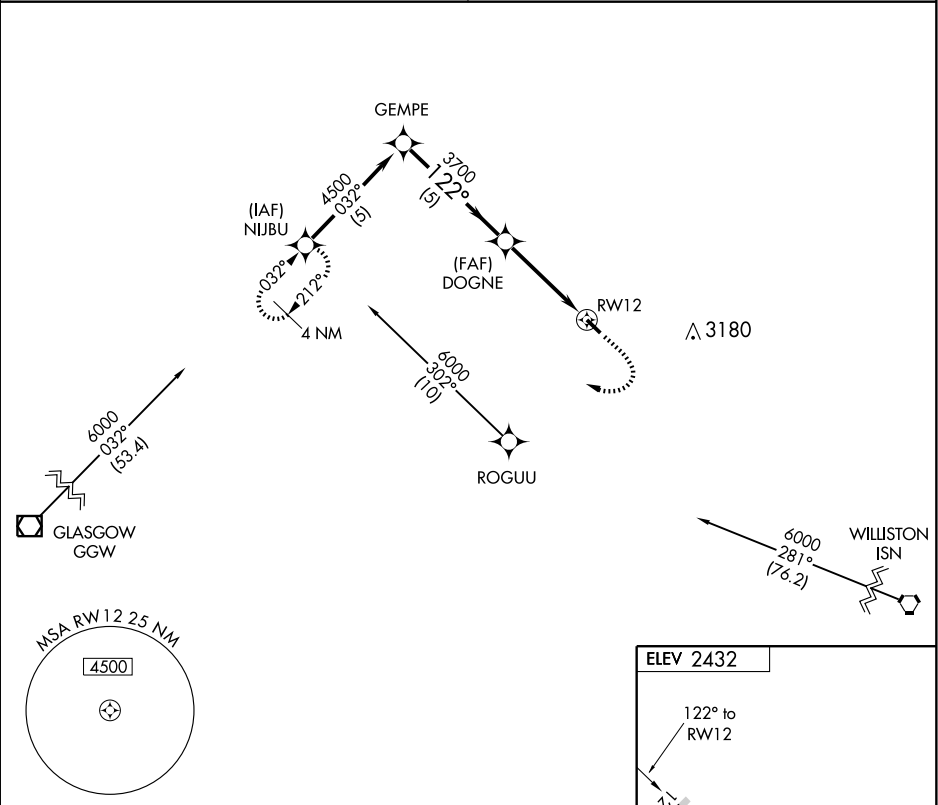
APP CRS	Rwy Idg	4015
122°	TDZE	2385
	Apt Elev	2432

RNAV (GPS) RWY 12

SCOBEY (9S2)

 GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.	MISSED APPROACH: Climb to 3600 then climbing right turn to 6000 direct NIJBU WP and hold.
 NA Use Wolf Point altimeter setting; when not received procedure not authorized.	

SALT LAKE CITY CENTER 126.85 305.2	UNICOM 122.8 (CTAF) 
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NDB SBX
347

APP CR
213°

Rwy Idg	5004
TDZE	3443
Apt Elev	3443

NDB RWY 23
SHELBY (SBX)

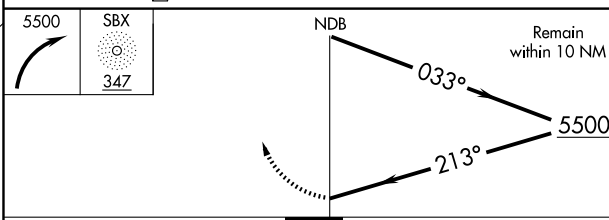
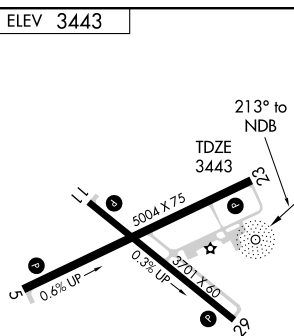
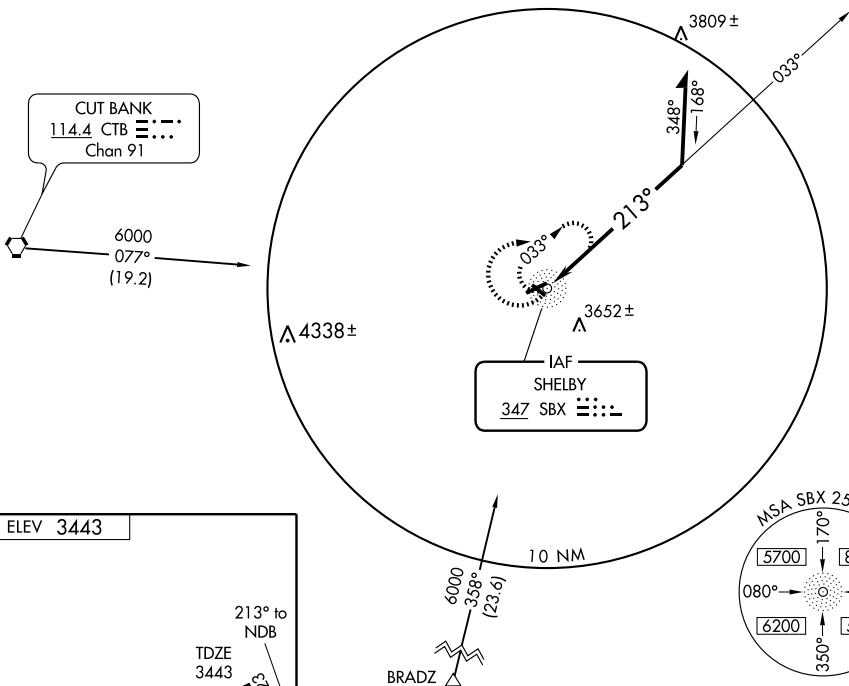


NA Use Cut Bank altimeter setting, if not received, use Great Falls altimeter setting and increase all MDAs 120 feet.

MISSED APPROACH: Climbing right turn to 5500 in SBX NDB holding pattern.

SALT LAKE CITY CENTER
133.4 285.4

UNICOM
122.8 (CTAF) **L**



CATEGORY	A	B	C	D
S-23	4240-1 797 (800-1)	4240-1 ¼ 797 (800-1 ¼)	4240-2 ¼ 797 (800-2 ¼)	NA
CIRCLING	4240-1 797 (800-1)	4240-1 ¼ 797 (800-1 ¼)	4240-2 ¼ 797 (800-2 ¼)	NA

MIRL Rwy 5-23 and 11-29 **L**

APP CRS	Rwy Idg	5004
230°	TDZE	3443
	Apt Elev	3443

RNAV (GPS) RWY 23

SHELBY (SBX)

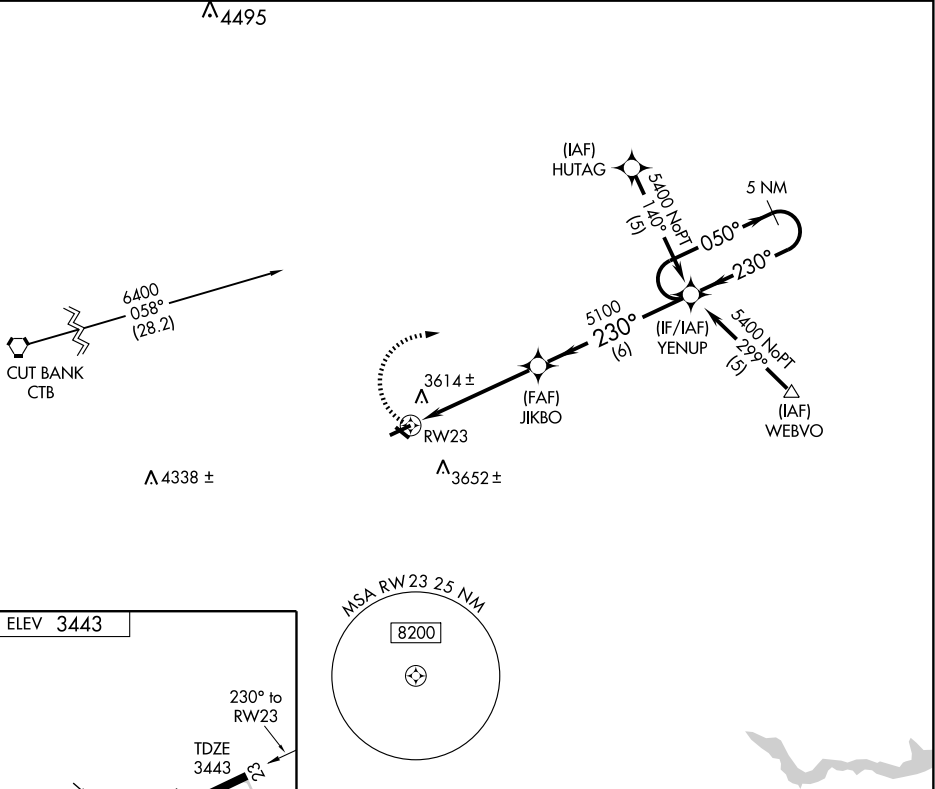
▼

DA

DME/DME RNP- 0.3 NA.
Circling NA at night.
Visibility reduction by helicopters NA.
Use Cut Bank altimeter setting, if not received, use Great Falls altimeter setting and increase all MDAs 120 feet.

MISSED APPROACH: Climbing right turn to 5400 direct YENUP and hold.

SALT LAKE CITY CENTER 133.4 285.4	UNICOM 122.8 (CTAF) 1
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5400

YENUP

5400

5 NM Holding Pattern

RW23

3.04°

TCH 32

JIKBO

5100

230°

050°

230°

5400

5 NM

6 NM

CATEGORY	A	B	C	D
LNAV MDA	4060-1	617 (700-1)	4060-1¾ 617 (700-1¾)	NA
CIRCLING	4120-1	677 (700-1)	4120-2 677 (700-2)	NA

MIRL Rwy 5-23 and 11-29

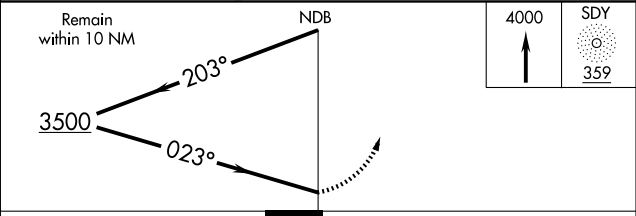
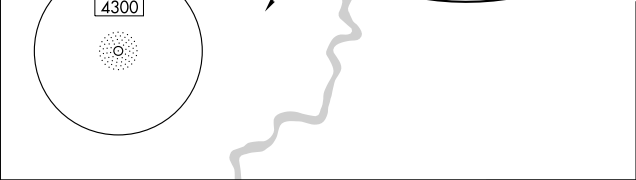
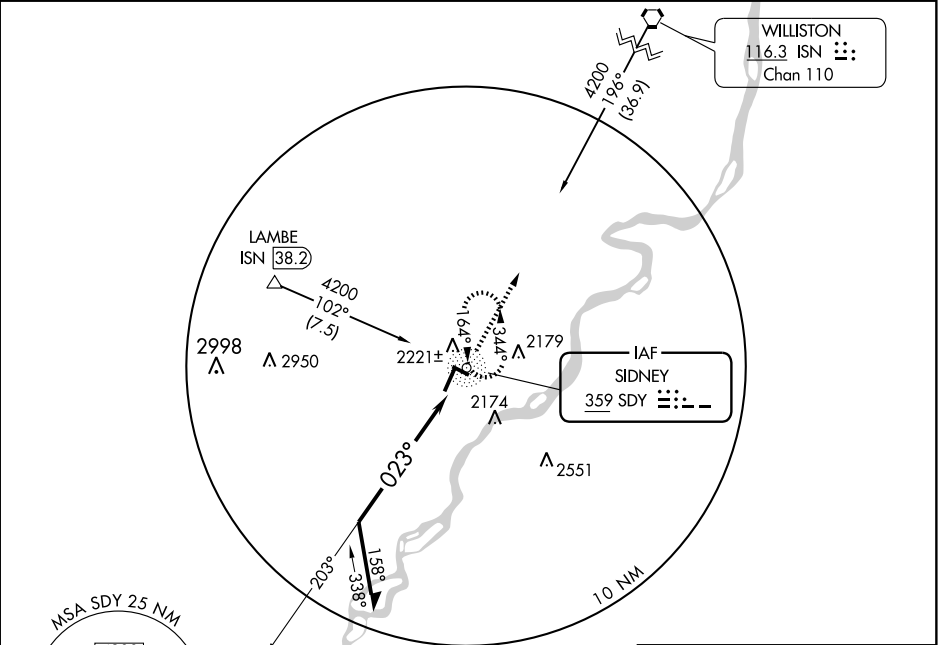
NDB SDY	APP CRS	Rwy Idg	5705
359	023°	TDZE	1984
		Apt Elev	1984

NDB RWY 1
SIDNEY-RICHLAND MUNI (SDY)

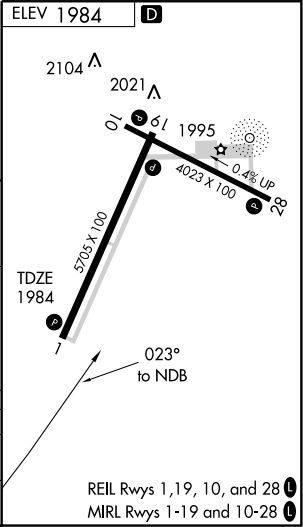


MISSED APPROACH: Climb to 4000 then direct SDY NDB and hold.

AWOS-3 119.275	GREAT FALLS RADIO 123.65	UNICOM 122.8 (CTAF) 0
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CATEGORY	A	B	C	D
S-1	2720-1	736 (800-1)	2720-2 736 (800-2)	2720-2¼ 736 (800-2¼)
CIRCLING	2720-1	736 (800-1)	2720-2 736 (800-2)	2720-2¼ 736 (800-2¼)

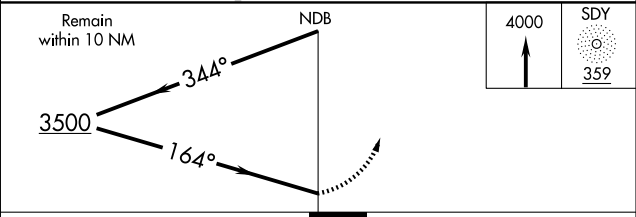
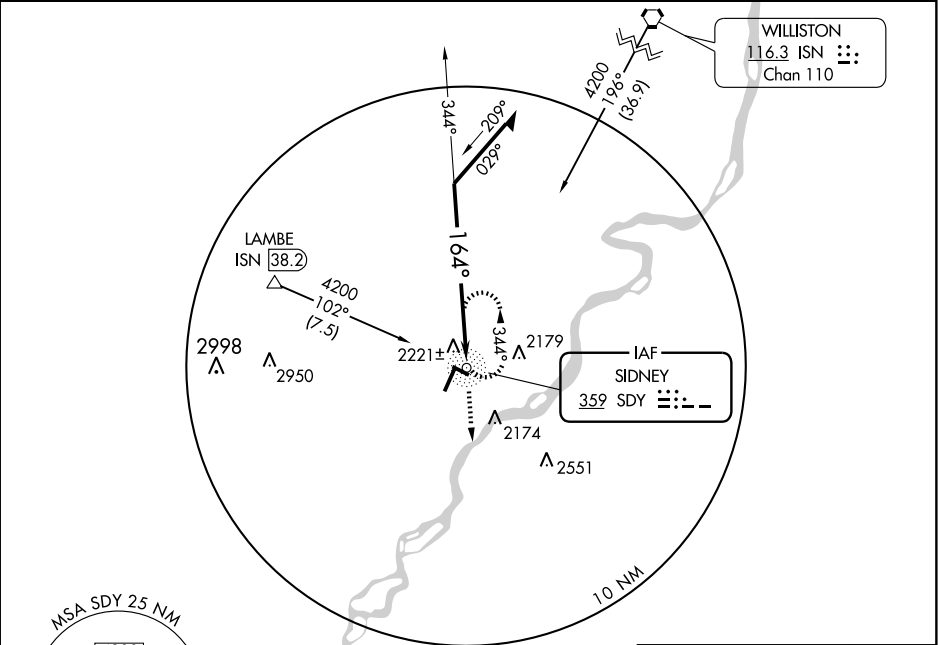


NDB SDY	APP CRS	Rwy Idg	5705
359	164°	TDZE	1979
		Apt Elev	1984

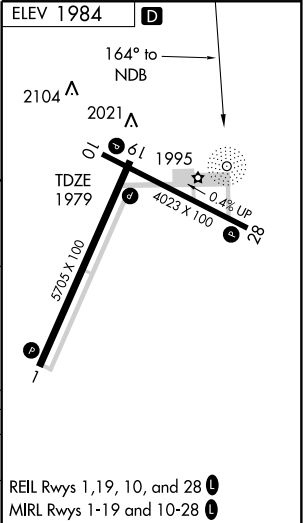
NDB RWY 19
SIDNEY-RICHLAND MUNI (SDY)

MISSED APPROACH: Climb to 4000 then direct SDY NDB and hold.

AWOS-3 119.275	GREAT FALLS RADIO 123.65	UNICOM 122.8 (CTAF)
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CATEGORY	A	B	C	D
S-19	2780-1 801 (800-1)	2780-1¼ 801 (800-1¼)	2780-2¼ 801 (800-2¼)	2780-2½ 801 (800-2½)
CIRCLING	2780-1 796 (800-1)	2780-1¼ 796 (800-1¼)	2780-2¼ 796 (800-2¼)	2780-2½ 796 (800-2½)



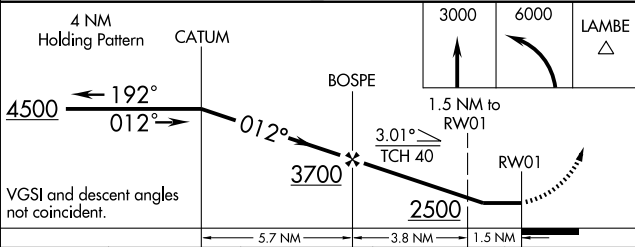
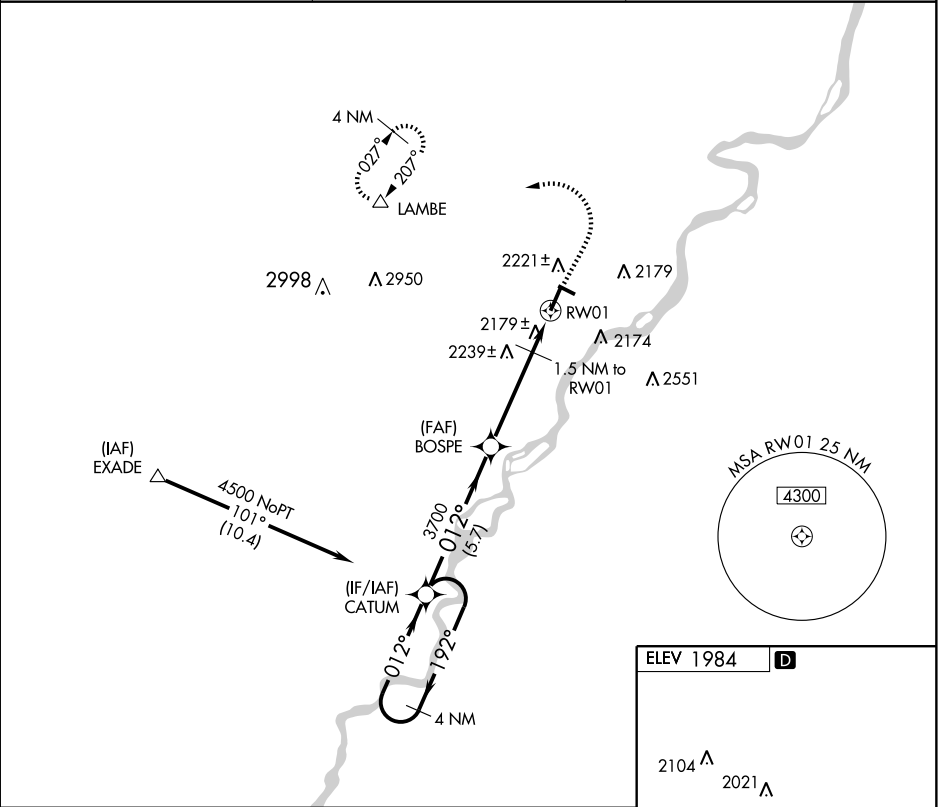
REIL Rwy 1, 19, 10, and 28
MIRL Rwy 1-19 and 10-28

APP CRS 012°	Rwy Idg TDZE Apt Elev	5705 1984 1984
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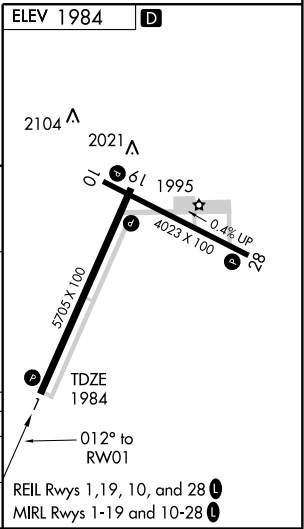
RNAV (GPS) RWY 1
SIDNEY-RICHLAND MUNI (SDY)

NA GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.	MISSED APPROACH: Climb to 3000 then climbing left turn to 6000 direct LAMBE WP and hold.
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AWOS-3 119.275	GREAT FALLS RADIO 123.65	UNICOM 122.8 (CTAF)
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CATEGORY	A	B	C	D
RNAV MDA	2440-1	456 (500-1)	2440-1½ 456 (500-1½)	2440-1½ 456 (500-1½)
CIRCLING	2620-1 636 (700-1)	2640-1 656 (700-1)	2680-2 696 (700-2)	2700-2¼ 716 (800-2¼)



APP CRS 192°	Rwy Idg TDZE Apt Elev	5705 1979 1984
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RNAV (GPS) RWY 19

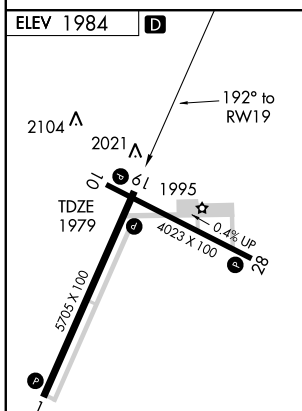
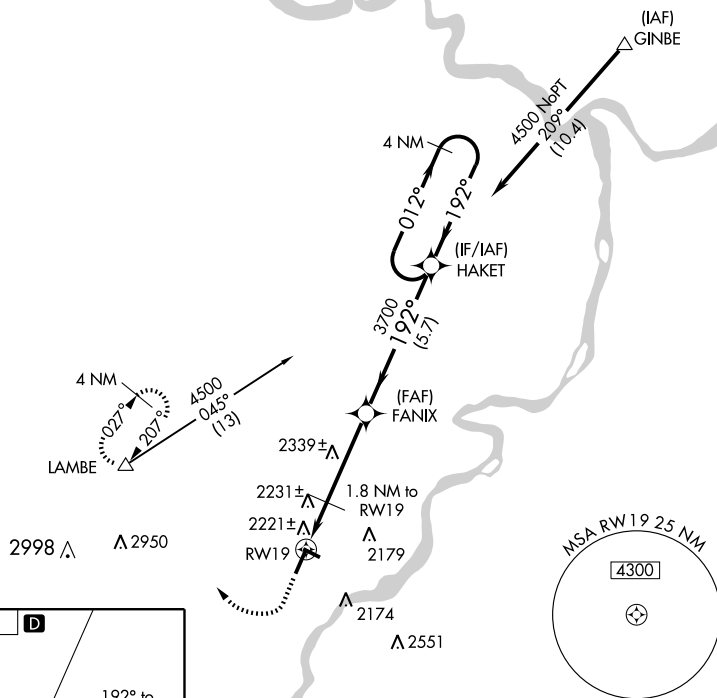
SIDNEY-RICHLAND MUNI (SDY)



A NA GPS or RNP- 0.3 required. DME/DME RNP- 0.3 NA.

MISSED APPROACH: Climb to 3000 then climbing right turn to 6000 direct LAMBE WP and hold.

AWOS-3 119.275	GREAT FALLS RADIO 123.65	UNICOM 122.8 (CTAF) 1
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CATEGORY	A	B	C	D
RNAV MDA	2500-1	521 (600-1)	2500-1½ 521 (600-1½)	2500-1¾ 521 (600-1¾)
CIRCLING	2620-1 636 (700-1)	2640-1 656 (700-1)	2680-2 696 (700-2)	2700-2¼ 716 (800-2¼)

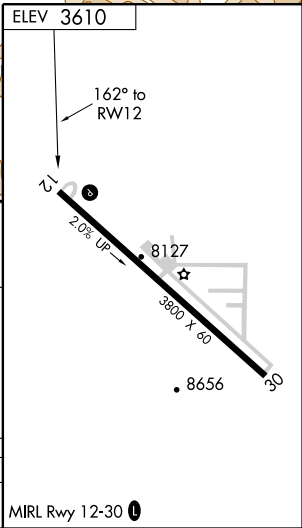
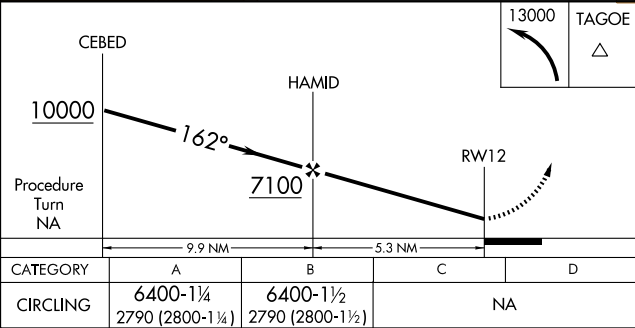
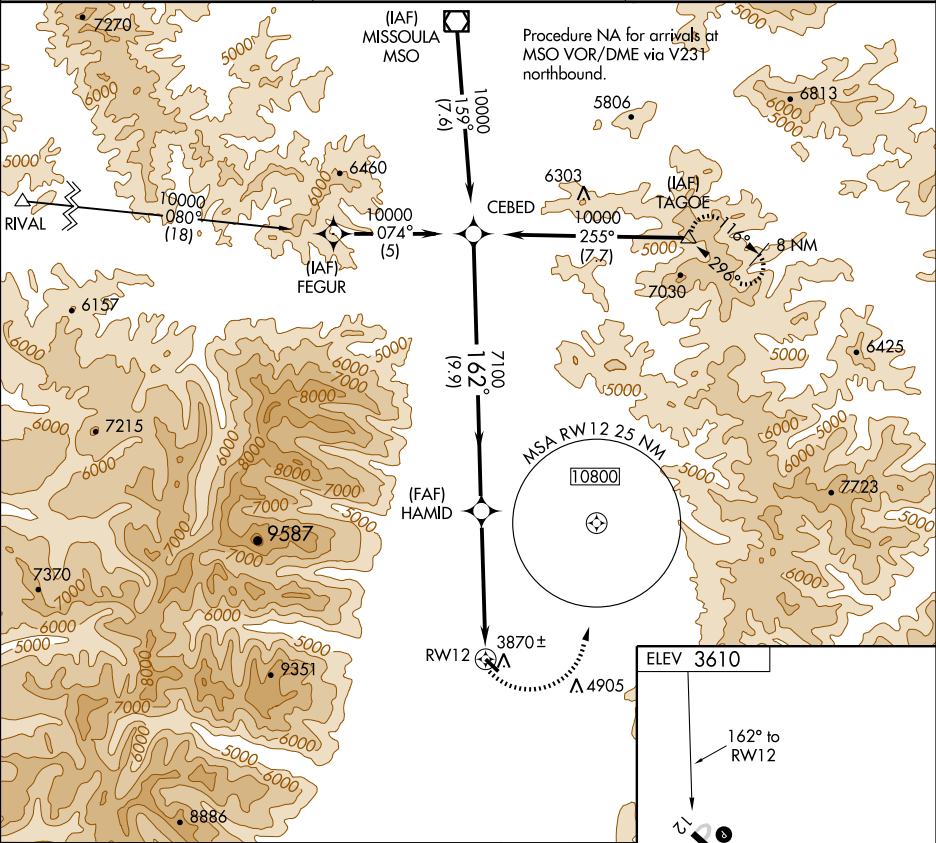
REIL Rwy's 1, 19, 10, and 28 **L**MIRL Rwy 1-19 and 10-28 **L**

RNAV (GPS)-A
STEVENSVILLE (32S)

APP CRS 162°	Rwy Idg TDZE Apt Elev	N/A N/A 3610
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▼ ▲ NA	DME/DME RNP-0.3 NA. Use Missoula Intl altimeter setting. Circling NA at night to Rwy 30.	MISSED APPROACH: Climbing left turn to 13000 direct TAGOE WP and hold.
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MISSOULA ASOS 126.65	SPOKANE APP CON★ 124.9 298.95	UNICOM 122.8 (CTAF) 0
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LOC I-LOW <u>110.7</u>	APP CRS 010°	Rwy Idg 8399 TDZE 6644 Apt Elev 6644
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ILS or LOC RWY 1
WEST YELLOWSTONE/YELLOWSTONE (WYS)

T
A NA If local altimeter setting not received, procedure not authorized.


MALSR

MISSED APPROACH: Climb to 7600, then climbing right turn to 10000 direct LO LOM and hold.

SALT LAKE CENTER
132.4 338.3

UNICOM
123.0 (CTAF) **L**

ADF REQUIRED

DUBOIS
116.9 DBS 
Chan 116

ELEV 6644

HIRL Rwy 1-19 **L**
REIL Rwy 19

Diagram illustrating the HIRL (High Intensity Runway Lighting) and REIL (Runway End Identifier Lights) runways. The diagram shows a runway layout with the following details:

- Runway Labels:** HIRL Rwy 1-19 and REIL Rwy 19.
- Runway Dimensions:** 8400 X 150.
- Navigation Aids:**
 - TDZE (Touchdown Zone Elevation):** 6644.
 - 6675 ±:** A point on the left side of the runway.
 - 6705:** A point on the right side of the runway.
 - 6688:** A point on the right side of the runway.
- Angles and Distances:**
 - 011° 6.9 NM from FAF:** A bearing and distance measurement from the Final Approach Fix (FAF).

FAF to MAP 6.9 NM					
Knots	60	90	120	150	180
Min:Sec	6:54	4:36	3:27	2:46	2:18

Remain
within 10 NM

Remain within 10 NM

LOM

10000

190°

010°

GS 3.00°
TCH 50

*9500

9000

* 9000 when Glide Slope not used.

893

A horizontal line representing a polymer chain segment. Below the line, a double-headed arrow indicates a length of 6.9 nm. The line ends with a thick black vertical bar on the right.

CATEGORY	A	B	C	D
S-ILS 1	6844-½ 200 (200-½)			
S-LOC 1	7720-¾ 1076 (1100-¾)	7720-1 1076 (1100-1)	7720-2½	1076 (1100-2½)
CIRCLING	7720-1¼ 1076 (1100-1¼)	7720-1½ 1076 (1100-1½)	7720-3	1076 (1100-3)

LOM	LO	APP CRS	Rwy Idg	8399
415		011°	TDZE	6644
			Apt Elev	6644

⚠

If local altimeter setting not received, procedure not authorized.

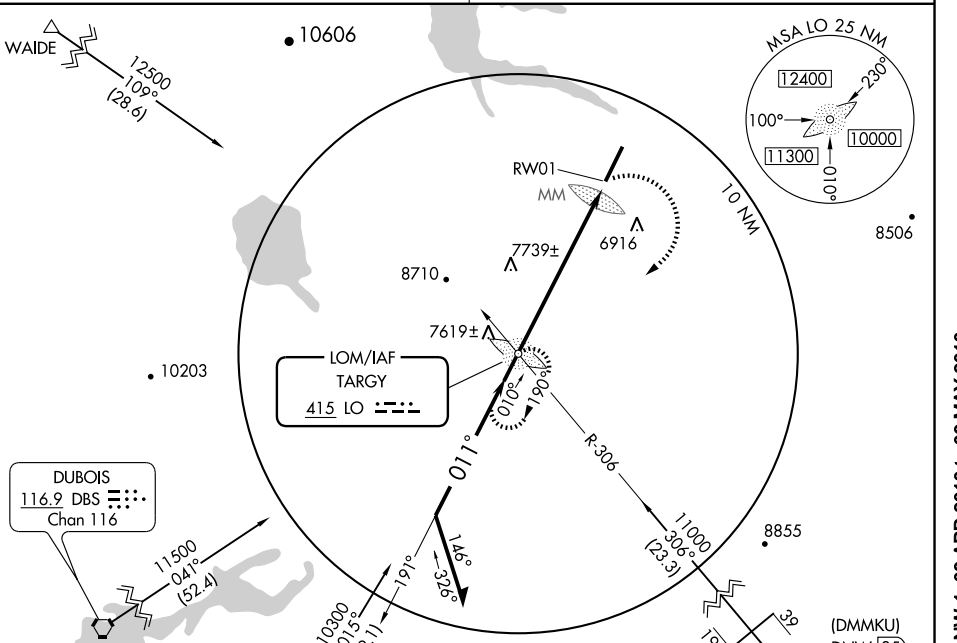
⚠

Categories A and B, S-1 visibility increased ½ mile for inoperative MALS.

MALS

MISSED APPROACH: Climbing right turn to 10000 direct LO LOM and hold.

SALT LAKE CENTER 132.4 338.3	UNICOM 123.0 (CTAF)
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ELEV 6644

HIRL Rwy 1-19

REIL Rwy 19

FAF to MAP 6.9 NM

Knots	60	90	120	150	180
Min:Sec	6:54	4:36	3:27	2:46	2:18

Remain within 10 NM

10000

191°

011°

9000

3.15° TCH 50

6.9 NM

RW01

415

CATEGORY	A	B	C	D
S-1	8000-¾ 1356 (1400-¾)	8000-1 1356 (1400-1)	8000-2½ 1356 (1400-2½)	8000-2¾ 1356 (1400-2¾)
CIRCLING	8000-1¼ 1356 (1400-1¼)	8000-1½ 1356 (1400-1½)	8000-3	1356 (1400-3)

NDB OLF
404

APP CRS
286°

Rwy Idg	5089
TDZE	1986
Apt Elev	1986

NDB RWY 29

WOLF POINT/L. M. CLAYTON (OLF)

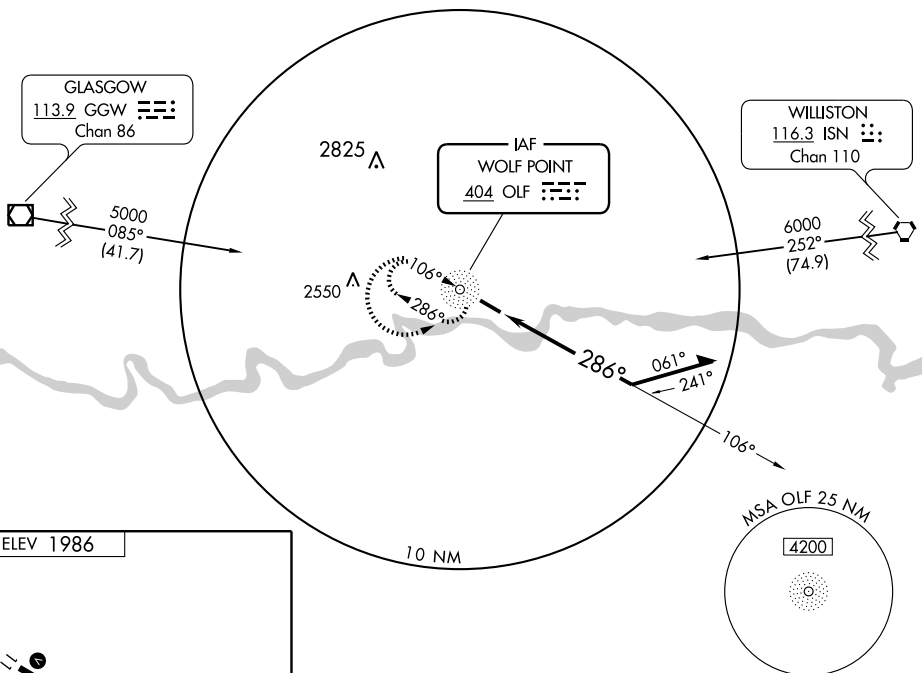
NA If local altimeter setting not received, used Wokal Field/Glasgow Intl altimeter setting and increase all MDAs 160 feet.

MISSED APPROACH: Climbing left turn to 4000 direct OLF NDB continue climb-in-hold to 4000.

ASOS
118,325

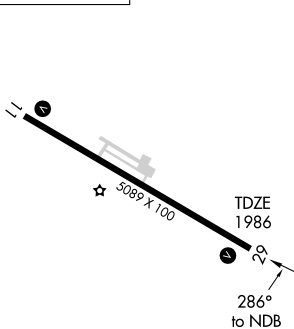
SALT LAKE CENTER
126.85 305.2

UNICOM
122.8 (CTAF) **L**



NW-1. 08 APR 2010 to 06 MAY 2010

ELEV 1986



MIRL Rwy 11-29 **L**
REIL Rwy 11-29 **L**

Knots	60	90	120	150	180
Min:Sec					

Diagram illustrating the circling approach for Runway 4000. The approach is defined by a 106° turn from the NDB to the runway, and a 286° turn from the runway back to the NDB. The distance from the NDB to the runway is 4300 feet. The diagram is labeled "Remain within 10 NM".

APP CRS	Rwy Idg	5089
109°	TDZE	1986
	Apt Elev	1986

RNAV (GPS) RWY 11

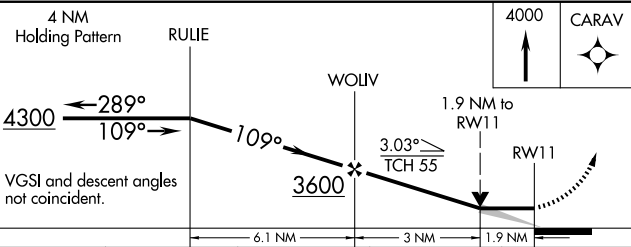
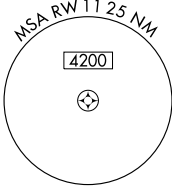
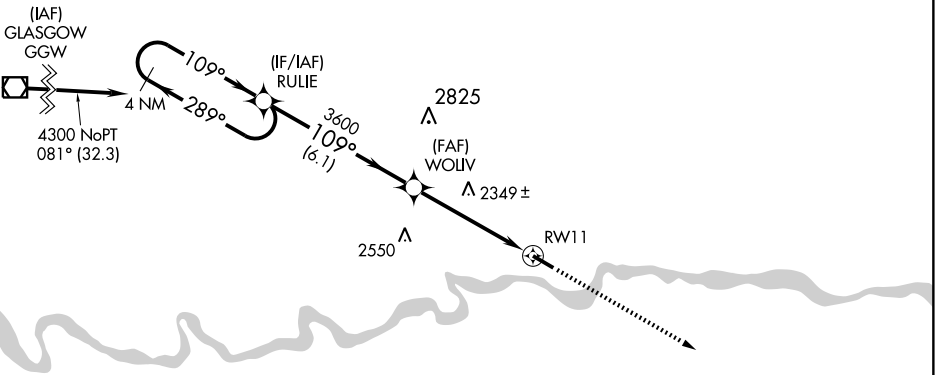
WOLF POINT/ L. M. CLAYTON (OLF)

⚠ DME/DME RNP-0.3 NA.
If local altimeter setting not received, use Wokal Field/Glasgow Intl altimeter setting and increase all MDAs 140 feet.
VDP NA when using Wokal Field/Glasgow Intl altimeter setting.
Straight-in minimums NA at night.

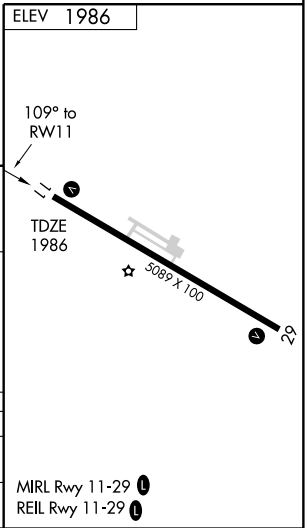
MISSED APPROACH: Climb to 4000 direct CARAV and hold.

ASOS 118.325	SALT LAKE CENTER 126.85 305.2	UNICOM 122.8 (CTAF) 1
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Procedure NA for arrival at GGW VOR/DME via V430 westbound.



CATEGORY	A	B	C	D
LNAV MDA	2600-1 614 (700-1)		2600-1¾ 614 (700-1¾)	2600-2 614 (700-2)
CIRCLING	2600-1 614 (700-1)		2600-1¾ 614 (700-1¾)	2600-2 614 (700-2)

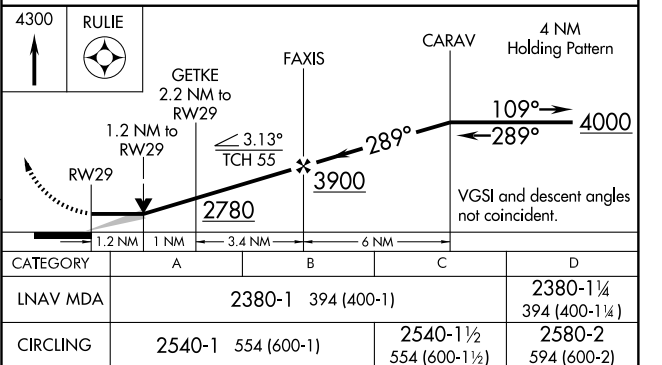
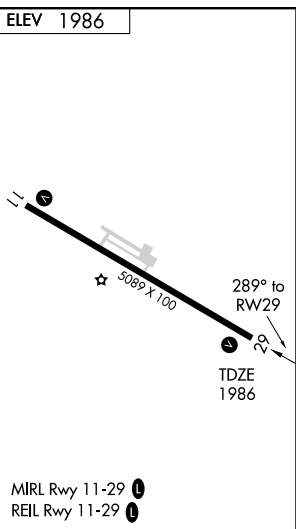
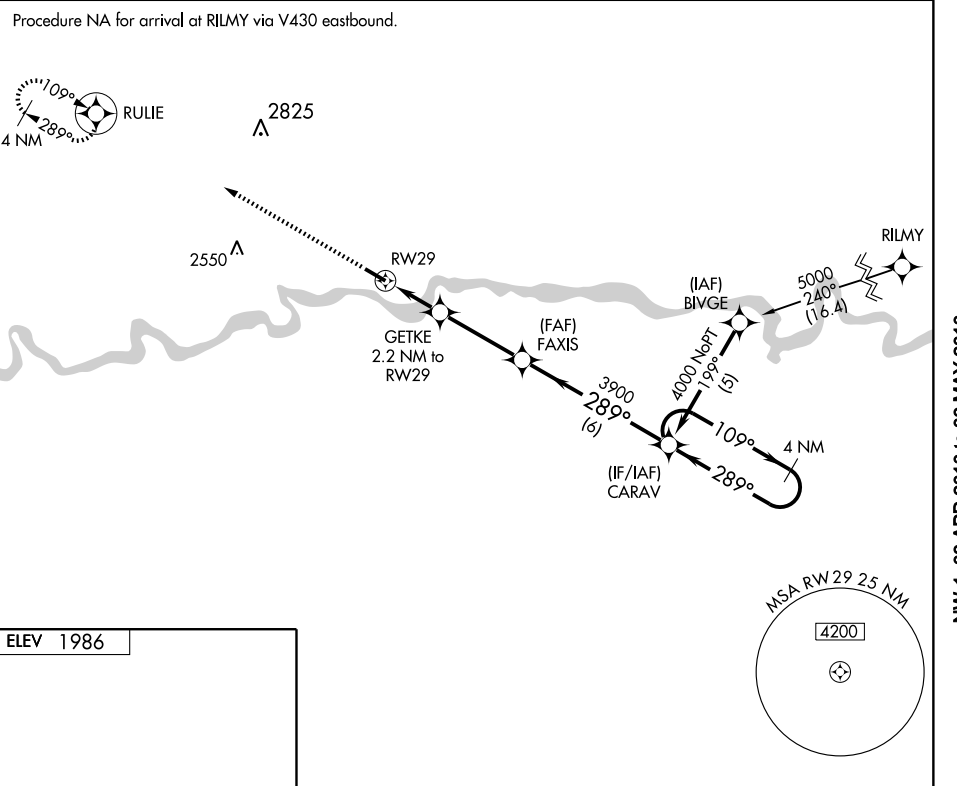


▲

DME/DME RNP- 0.3 NA.
If local altimeter setting not received, use Wokal Field/Glasgow Intl
altimeter setting and increase all MDAs 160 feet.
VDP NA when using Wokal Field/Glasgow Intl altimeter setting.

MISSED APPROACH: Climb to 4300 direct RULIE
and hold.

ASOS 118.325	SALT LAKE CENTER 126.85 305.2	UNICOM 122.8 (CTAF)
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NW-1. 08 APR 2010 to 06 MAY 2010

INSTRUMENT APPROACH PROCEDURE CHARTS

A IFR ALTERNATE AIRPORT MINIMUMS

Standard alternate minimums for non precision approaches are 800-2 (NDB, VOR, LOC, TACAN, LDA, VORTAC, VOR/DME, ASR or WAAS LNAV); for precision approaches 600-2 (ILS or PAR). Airports within this geographical area that require alternate minimums other than standard or alternate minimums with restrictions are listed below. NA - means alternate minimums are not authorized due to unmonitored facility or absence of weather reporting service. Civil pilots see FAR 91. IFR Alternate Airport Minimums: Ceiling and Visibility Minimums not applicable to USA/USN/USAF. Pilots must review the IFR Alternate Airport Minimums Notes for alternate airfield suitability.

NAME ALTERNATE MINIMUMS

ALBANY, OR

ALBANY MUNI **VOR/DME or GPS-A**
NA except for operators with approved weather reporting service.

ARLINGTON, WA

ARLINGTON MUNI **NDB or GPS Rwy 34**
Category D, 800-2½.
NA when Paine Field control tower closed.

ASTORIA, OR

ASTORIA RGNL **RNAV (GPS) Rwy 26¹²**
VOR Rwy 8³

- ¹NA when local weather not available.
²Categories A, B, 900-2; Category C, 900-2½;
Category D, 900-3.
³Category C, 800-2½; Category D, 900-3.

AURORA, OR

AURORA STATE **LOC Rwy 17¹**
RNAV (GPS) Rwy 17²³
RNAV (GPS) Rwy 35²

- ¹Category D, 800-2½.
²NA when local weather not available.
³Categories A, B, 900-2; Category C, 900-2½;
Category D, 900-2½.

BAKER, MT

BAKER MUNI **NDB Rwy 13¹**
NDB Rwy 31²

- ¹Categories A,B, 1100-2; Categories C,D,
1100-3.
²Categories A,B, 1000-2; Category C, 1000-2½;
Category D, 1000-3.

BAKER CITY, OR

BAKER CITY MUNI **RNAV (GPS) Rwy 13¹²**
VOR-A¹³
VOR/DME Rwy 13²⁴

- ¹NA when local weather not available.
²Category D, 900-2½.
³Categories A,B, 1900-2; Categories C,D,
1900-3.
⁴NA when control zone not in effect.

NAME ALTERNATE MINIMUMS

BELLINGHAM, WA

BELLINGHAM INTL **ILS or LOC Rwy 16**
RNAV (GPS) Rwy 16
NA when local weather not available.

BIG PINEY, WY

MILEY MEMORIAL FIELD **VOR Rwy 31**
Category D, 800-2½.

BILLINGS, MT

BILLINGS LOGAN
INTL **NDB Rwy 10L¹**
RNAV (GPS) Rwy 10L²
RNAV (GPS) Rwy 28R³

- ¹Category D, 800-2½.
²Categories A,B,C,D, 800-2½.
³Categories A,B, 900-2; Categories C,D,
900-3.

BOISE, ID

BOISE AIR TERMINAL(GOWEN
FIELD) **LOC BC Rwy 28L**
RNAV (GPS) Y Rwy 10R
RNAV (GPS) Y Rwy 28L
VOR/DME or TACAN Rwy 10L
VOR/DME or TACAN Rwy 28L
Category E, 1000-3.

BOZEMAN, MT

GALLATIN FIELD **VOR Rwy 12**
Category C, 800-2½; Category D, 800-2½.

BREMERTON, WA

BREMERTON NATIONAL .. **RNAV (GPS) Rwy 1**
RNAV (GPS) Rwy 19¹
NA when local weather not available.

- ¹Categories A,B, 1200-2; Categories C,D,
1200-3.

NAME ALTERNATE MINIMUMS

BUFFALO, WY

JOHNSON COUNTY RNAV (GPS) Rwy 31¹
VOR/DME Rwy 31²

NA when local weather not available.

¹Category D, 800-2¼.

²Category C, 800-2¼; Category D, 800-2½.

BURLEY, ID

BURLEY MUNI VOR-A
VOR/DME-B

NA when local weather not received.

BURLINGTON/MOUNT VERNON, WA

SKAGIT RGNL NDB Rwy 10¹
RNAV (GPS) Rwy 10
RNAV (GPS) Rwy 28

NA when local weather not available.

¹Categories A,B, 1300-2; Categories C,D, 1300-3.

BURNS, OR

BURNS MUNI VOR Rwy 30
Categories A, B, 1400-2; Categories C,D, 1400-3.

BUTTE, MT

BERT MOONEY ILS Y Rwy 15¹
LOC/DME Rwy 15²
RNAV (GPS) Y Rwy 15³
RNAV (GPS) Z Rwy 15,1200-2
VOR or GPS-B,1400-3
VOR/DME or GPS-A,3000-3

¹Categories A, B, C, 1200-4.

²Categories A,B, 1300-2; Categories C,D, 1300-3.

³Categories A,B, 1500-2; Categories C,D, 1500-3.

CALDWELL, ID

CALDWELL
INDUSTRIAL RNAV (GPS) Rwy 12
RNAV (GPS) Rwy 30

NA when local weather not available.

CASPER, WY

CASPER/NATRONA
COUNTY INTL ILS or LOC Rwy 3
ILS, Categories A,B, 800-2; Category C 800-2½; Category D, 800-2¼; Category E, 900-3.
LOC, Category C, 800-2½; Category D, 800-2¾; Category E, 900-3.

NAME ALTERNATE MINIMUMS

CHEYENNE, WY

CHEYENNE RGNL/JERRY OLSON
FIELD ILS or LOC Rwy 27¹
NDB Rwy 27¹
RNAV (GPS) Rwy 9²
RNAV (GPS) Rwy 13²
RNAV (GPS) Rwy 31²
¹NA when control tower closed.

²NA when local weather not available.

CODY, WY

YELLOWSTONE
REGIONAL RNAV (GPS) Rwy 22¹
VOR or GPS-A²
¹Category C, 800-2¼; Category D, 200-2¾.

²Category D, 900-3.

COEUR D'ALENE, ID

COEUR D'ALENE-PAPPY
BOYINGTON FIELD ILS or LOC/DME Rwy 5
NDB Rwy 5
RNAV (GPS) Rwy 5
VOR Rwy 5
VOR/DME Rwy 1

NA when local weather not available.

CORVALLIS, OR

CORVALLIS MUNI VOR-A
Categories A,B,1200-2; Categories C,D, 1200-3.

DEER PARK, WA

DEER PARK RNAV (GPS) Rwy 34
NA when local weather not available.

DILLON, MT

DILLON VOR or GPS-A,1500-3
VOR/DME or GPS-B
NA when Dillon altimeter setting not available.

DOUGLAS, WY

CONVERSE COUNTY VOR Rwy 29
Categories A,B, 1100-2; Categories C,D, 1100-3. DME standard.

EASTSOUND, WA

ORCAS ISLAND RNAV (GPS)-A
Categories A, B, 1100-2.
NA when local weather not available.

ELLENSBURG, WA

BOWERS FIELD RNAV (GPS) Rwy 25¹
RNAV (GPS) Rwy 29
VOR-B²

NA when local weather not available.

¹Category D, 800-2¼.

²Category A, 1500-2.

NAME ALTERNATE MINIMUMS

EPHRATA, WA

EPHRATA MUNI **RNAV (GPS) Rwy 3¹**
RNAV (GPS) Rwy 21²
VOR/DME Rwy 3¹
VOR Rwy 21¹

NA when local weather not available.

¹Category D, 1300-3.

²Category C, 800-2¼; Category D, 1300-3.

EUGENE, OR

MAHLON-SWEET

FIELD **ILS or LOC/DME Z Rwy 16R¹**
ILS or LOC Y Rwy 16R¹
ILS or LOC/DME Rwy 16L¹²
RNAV (GPS) Rwy 34R²
VOR or GPS-A³

¹NA when control tower closed.

²NA when local weather not available.

³Categories A,B, 900-2; Category C, 900-2¼;
 Category D, 900-2¾.

EVANSTON, WY

EVANSTON-UINTA COUNTY

BURNS FIELD **ILS or LOC/DME Rwy 23**
 Categories C,D, 700-2.

EVERETT, WA

SNOHOMISH COUNTY(PAINE

FIELD) **ILS or LOC/DME Rwy 16R**
 NA when control tower closed.
 NA when local weather not available.

FORT BENTON, MT

FORT BENTON **RNAV (GPS) Rwy 23**
 NA when local weather not available.

GILLETTE, WY

GILLETTE-CAMPBELL

COUNTY **ILS or LOC Rwy 34¹²**
RNAV (GPS) Rwy 16³
RNAV (GPS) Rwy 34⁴
VOR/DME Rwy 16⁵
VOR/DME Rwy 34¹

¹Categories A,B, 900-2; Category C, 900-2¼;
 Category D, 1000-3.

²NA when control tower closed.

³Categories A,B,C, 800-2¼; Category D,
 1000-3.

⁴Categories A,B,C,D, 1200-4.

⁵Category C, 800-2¼; Category D, 1000-3.

GLASGOW, MT

WOKAL FIELD/

GLASGOW INTL **VOR Rwy 12**
 Categories A,B, 900-2; Categories C,D, 900-3.
 VOR/DME standard.

NAME ALTERNATE MINIMUMS

GLENDIVE, MT

DAWSON

COMMUNITY **NDB or GPS Rwy 12,900-2¼**

GOODING, ID

GOODING MUNI **RNAV (GPS) Rwy 7**
RNAV (GPS) Rwy 25

NA when local weather not available.

GRAY AAF (KGRF)

FORT LEWIS, WA **NDB Rwy 15**
NDB Rwy 33
ILS or LOC Rwy 15
COPTER NDB Rwy 15

NA when control tower closed.

GREAT FALLS, MT

GREAT FALLS INTL **NDB Rwy 34**
 Category D, 800-2¼.

GREYBULL, WY

SOUTH BIG HORN COUNTY **RNAV (GPS)-A**
RNAV (GPS) Rwy 33¹

NA when local weather not available.

¹Category D, 1200-3.

HAILEY, ID

FRIEDMAN

MEMORIAL **RNAV (GPS) W Rwy 31**
 Categories A,B, 1900-2; Category C, 1900-3.

HAVRE, MT

HAVRE CITY-COUNTY **VOR Rwy 26**
 Categories A, B, 900-2; Category C, 900-2¾;
 Category D, 900-3.

NAME ALTERNATE MINIMUMS

HELENA, MT

HELENA RGNL **ILS or LOC Y Rwy 27¹²**
ILS or LOC Z Rwy 27¹²
LOC/DME BC-C¹³
NDB-D¹⁴
RNAV (GPS) Y Rwy 9⁵
RNAV (GPS) Rwy 23⁶
RNAV (GPS) X Rwy 27⁵
RNAV (RNP) Z Rwy 9⁷
RNAV (RNP) Y Rwy 27⁷
RNAV (RNP) Z Rwy 27⁷
VOR-A⁸
VOR/DME-B⁹

¹NA when control tower closed.

²Categories A, B, 1600-2; Categories C, D, E, 1600-3.

³Categories A, B, 1300-2; Categories C, D, 1300-3.

⁴Category A, 1200-2.

⁵Categories A, B, 1600-2; Categories C, D, 1600-3.

⁶Categories A, B, 900-2; Category C, 900-2½; Category D, 900-3.

⁷NA when local weather not available.

⁸Categories A, B, 2900-2; Categories C, D, 2900-3.

⁹1000-4.

HOQUIAM, WA

BOWERMAN **RNAV (GPS) Rwy 24¹**
VOR/DME Rwy 24²
VOR Rwy 6¹

¹Category D, 800-2¼.

²Categories A,B, 900-2; Category C, 900-2¾; Category D, 900-3.

IDAHO FALLS, ID

IDAHO FALLS RGNL **ILS or LOC Rwy 20¹**
LOC BC Rwy 2²
RNAV (GPS) Rwy 20³
VOR Rwy 20³

¹ILS, Category E, 700-2½. LOC, Category E, 800-2½.

²Category E, 800-2½.

³NA when local weather not available.

JACKSON, WY

JACKSON HOLE **RNAV (GPS) X Rwy 1¹**
RNAV (GPS) Y Rwy 19¹
RNAV (RNP) Y Rwy 1, 10681200-4
VOR/DME Rwy 1²
VOR/DME Rwy 19³

¹Categories A,B, 1200-2; Categories C,D, 1200-3.

²Categories A,B,1000-2; Categories C,D, 1000-3.

³Categories A,B,1400-2; Categories C,D, 1400-3.

NAME ALTERNATE MINIMUMS

JEROME, ID

JEROME COUNTY **RNAV (GPS) Rwy 9**
RNAV (GPS) Rwy 27¹
VOR/DME-A

NA when local weather not available.

¹Categories A, B, 1300-2; Categories C, D, 1300-3.

JOHN DAY, OR

GRANT COUNTY RGNL/
OGILVIE FIELD **RNAV (GPS) Y Rwy 9**
Category B, 900-2; Category C, 900-2½.

KALISPELL, MT

GLACIER PARK INTL **ILS or LOC Rwy 2¹**
RNAV (RNP) Y Rwy 2²
RNAV (RNP) Rwy 20, 800-2½²

¹Categories C, D, 700-2.

²NA when local weather not available.

KELSO, WA

SOUTHWEST
WASHINGTON RGNL **RNAV (GPS) Rwy 12**
Categories A, B, 900-2.

KLAMATH FALLS, OR

KLAMATH FALLS **ILS or LOC Rwy 32¹**
RNAV (GPS) Rwy 14²
VOR/DME or TACAN Rwy 14³
VOR/DME or TACAN Rwy 32⁴
VOR or GPS-B, 2100-3

¹Categories A,B, 900-2; Category C, 900-2¾; Category D, 1000-3. LOC, DME required.

²Categories A,B, 900-2; Category C, 900-2¾; Category D, 1000-3.

³Categories C,D, 1000-3; Category E, NA.

⁴Category B, 900-2; Categories C,D, 1000-3; Category E, 1500-3.

LAKEVIEW, OR

LAKE COUNTY **VOR/DME-A**
Categories A,B, 900-2; Category C, 900-2½; Category D, 900-2¾.

LEWISTON, ID

LEWISTON-NEZ PERCE
COUNTY **ILS Rwy 26¹²**
RNAV (GPS) Rwy 9³
RNAV (GPS) Rwy 12³
RNAV (GPS) Rwy 26³
VOR Rwy 8⁴
VOR Rwy 26³

¹ILS, Category D, 800-2¼.

²NA when control tower closed.

³Category D, 800-2¼.

⁴Categories A, B, 1100-2; Categories C, D, 1100-3.

NAME ALTERNATE MINIMUMS

LEWISTOWN, MT

LEWISTOWN MUNI RNAV (GPS) Rwy 7
VOR Rwy 7

Category D, 800-2½.

LIVINGSTON, MT

MISSION FIELD VOR/DME-B¹
VOR-A²

¹Categories A, B, 900-2; Category C, 900-2½;
Category D, 1000-3.

²Categories A, B, 2200-2; Categories C, D,
2200-3.

MC CALL, ID

MC CALL MUNI RNAV (GPS) Rwy 16¹
RNAV (GPS) Y Rwy 34²
RNAV (GPS) Z Rwy 34³⁴

¹Category C, 900-2½.

²Categories A, B, 1600-2; Categories C, D,
1600-3.

³NA when local weather not available.

⁴Category C, 900-2½; Category D, 1000-3.

MC MINNVILLE, OR

MC MINNVILLE MUNI ILS or LOC Rwy 22
RNAV (GPS) Rwy 4
RNAV (GPS) Rwy 22
VOR/DME-B

NA when local weather not available.

Category D 800-2½.

MEDFORD, OR

ROGUE VALLEY INTL-
MEDFORD ILS or LOC/DME Rwy 14¹²
LOC/DME BC-B²³
RNAV (GPS)-D³
RNAV (GPS) Rwy 14⁴
VOR-A⁵
VOR/DME-C³
VOR/DME Rwy 14⁵

¹ILS, Categories A, B, C, 700-2; Category D,
900-2½. LOC, Category D, 900-2½.

²NA when control tower closed.

³Categories A, B, 2300-2; Categories C, D,
2300-3.

⁴Categories A, B, 1100-2; Categories C, D,
1100-3.

⁵Categories A, B, 1400-2; Category C, D
1400-3.

NAME ALTERNATE MINIMUMS

MISSOULA, MT

MISSOULA INTL ILS Rwy 11¹
RNAV (GPS) Y Rwy 11²³
RNAV (RNP) Z Rwy 11²,800-2½
VOR/DME or GPS-A,2000-3
VOR/DME or GPS-B,2000-3

¹ILS, 1600-6. LOC,NA.

²NA when local weather not available.

³Categories A, B, 1900-2; Categories C, D,
1900-3.

MOSES LAKE, WA

GRANT COUNTY INTL ... ILS or LOC Rwy 32R¹
NDB Rwy 32R²
RNAV (GPS) Rwy 4¹
RNAV (GPS) Rwy 14L¹
RNAV (GPS) Rwy 22¹
VOR Rwy 4²
VOR -1 Rwy 14L²
VOR -3 Rwy 14L²
VOR Rwy 22²
VOR Rwy 32R²

¹NA when local weather not available.

²NA when control tower closed.

NEWCASTLE, WY

MONDELL FIELD VOR or GPS Rwy 31
NA except for operators with approved weather
reporting service.
Categories A,B, 900-2;Categories C,D, 900-3.

NORTH BEND, OR

SOUTHWEST OREGON
RGNL ILS or LOC Rwy 4¹
NDB or GPS Rwy 4²
VOR or GPS-A³
VOR/DME or GPS-B⁴
VOR/DME Rwy 4⁴

¹ILS,Categories A,B, 800-2; Category C, 900-
2½, Category D,1000-3. LOC, Category C,
900-2½, Category D,1000-3.

²Category C, 900-2½;Category D, 1000-3.

³Categories A,B, 1100-2; Categories C,D,
1100-3.

⁴Categories C,D, 1000-3.

OAK HARBOR, WA

AJ EISENBERG RNAV (GPS) Rwy 7
NA when local weather not available.

OLYMPIA, WA

OLYMPIA RGNL ILS or LOC Rwy 17¹²³
RNAV (GPS) Rwy 17²
RNAV (GPS) Rwy 35²
VOR-A²⁴
VOR/DME Rwy 35²

¹ILS, Categories C, D, 700-2.

²NA when local weather not available.



NAME ALTERNATE MINIMUMS
ONTARIO, OR
 ONTARIO MUNI RNAV (GPS) Rwy 14
 RNAV (GPS) Rwy 32
 NA when local weather not available.

PASCO, WA
 TRI-CITIES ILS or LOC Rwy 21R¹²
 RNAV (GPS) Rwy 3L
 RNAV (GPS) Rwy 12
 RNAV (GPS) Rwy 21R
 RNAV (GPS) Rwy 30
 VOR Rwy 21R³
 VOR/DME Rwy 30
 NA when local weather not available.

- ¹NA when control tower closed.
²ILS, Categories A,B,C, 700-2; Category D, 700-2½. LOC, Category D, 800-2½.
³Category D, 800-2½.

PENDLETON, OR
 EASTERN OREGON RGNL AT
 PENDLETON ILS or LOC/DME Rwy 25¹
 RNAV (GPS) Rwy 7
 RNAV (GPS) Rwy 11
 RNAV (GPS) Rwy 25
 RNAV (GPS) Rwy 29
 VOR Rwy 7
 NA when local weather not available.
¹ILS, NA when control tower closed.

PINEDALE, WY
 PINEDALE/RALPH WENZ
 FIELD NDB-A¹
 RNAV (GPS) Rwy 11²
 RNAV (GPS) Rwy 29²
 NA when local weather not available.
¹Category C, 800-2½; Category D, 800-2½.
²Category D, 800-2½.

POCATELLO, ID
 POCATELLO RGNL ILS or LOC Rwy 21¹
 RNAV (GPS) Rwy 3²
 RNAV (GPS) Rwy 21²
 NA when control zone not in effect.
²NA when local weather not available.

PORT ANGELES, WA
 WILLIAM R
 FAIRCHILD INTL ILS or LOC Rwy 8
 RNAV (GPS) Rwy 8¹
 RNAV (GPS) Rwy 26
 NA when local weather not available.
¹Categories A, B, 1000-2; Categories C, D, 1000-3.

NAME ALTERNATE MINIMUMS
PORTLAND, OR
 PORTLAND INTL ILS or LOC Rwy 10L¹
 ILS or LOC Rwy 10R²
 ILS or LOC Rwy 28L³
 ILS or LOC Rwy 28R⁴
 LOC/DME Rwy 21⁵
 RNAV (GPS) Rwy 10L⁵
 RNAV (GPS) Rwy 10R⁶
 RNAV (GPS) Rwy 12⁷
 RNAV (GPS) Rwy 28L⁸
 RNAV (GPS) Rwy 28R⁹
 VOR/DME Rwy 21⁵
 VOR-A⁹
 VOR Rwy 28R⁵

- ¹ILS, Category A, 700-2; Categories B,C, 800-2; Category D, 1000-3. LOC, Category D, 1000-3.
²Categories A,B, 900-2; Category C, 900-2½; Category D, 1000-3; Category E, 1100-3.
³ILS, Category A, 700-2; Categories B,C, 800-2; Category D, 1000-3; Category E, 1100-3. LOC, Category D, 1000-3; Category E, 1100-3.
⁴ILS, Category A, 700-2; Categories B,C, 800-2; Category D, 1000-3. LOC, Category D, 1000-3.
⁵Category D, 1000-3.
⁶Categories A,B,C 800-5; Category D, 1000-5.
⁷NA when local weather not available.
⁸Category D, 1000-3.
⁹Categories A,B, 900-2; Category C, 900-2½; Category D, 1000-3.

PORTLAND-HILLSBORO .. ILS or LOC Rwy 12¹
 RNAV (GPS) Rwy 12²
¹Categories A,B, 1000-2; Category C, 1000-2½; Category D, 1000-3.
²NA when local weather not available.

PORTLAND-TROUTDALE NDB or GPS-A
 Categories A,B, 1100-2; Category C, 1100-3; Category D, 1300-3.

PULLMAN/MOSCOW, WA
 PULLMAN/MOSCOW
 MUNI RNAV (GPS) Rwy 5,800-2½

RAWLINS, WY
 RAWLINS MUNI/
 HARVEY FIELD RNAV (GPS) Rwy 22¹
 VOR/DME Rwy 22²
¹Categories A, B, 900-2; Category C, 900-2½; Category D, 900-2½.
²Categories A, B, 1000-2; Category C, 1000-2½; Category D, 1000-3.

NAME ALTERNATE MINIMUMS

REDMOND, OR

ROBERTS FIELD **ILS or LOC Rwy 22¹**
VOR/DME Rwy 22²

¹ILS, LOC, Category D, 800-2½; Category E, 800-2½.

²Category A, B, 1000-2; Category C, 1000-2¾; Category D, E, 1000-3.

RENTON, WA

RENTON MUNI **NDB Rwy 16¹**
RNAV (GPS) Y Rwy 16²
RNAV (GPS) Z Rwy 16³

NA when local weather not available.

¹Categories A, B, 1000-2; Categories C, D, 1000-3.

²Categories A, B, 900-2; Category C, 900-2¾; Category D, 900-3.

³Categories A, B, 900-2.

REXBURG, ID

REXBURG-MADISON
COUNTY **RNAV (GPS) Rwy 35**
NA when local weather not available.
Category D, 800-2½.

RICHLAND, WA

RICHLAND **NDB Rwy 19¹**
RNAV (GPS) Rwy 19¹
RNAV (GPS) Rwy 26¹
VOR/DME-A²
VOR Rwy 26¹

¹Category D, 800-2½.

²Categories A, B, 900-2; Category C, 900-2¾; Category D, 900-3.

RIVERTON, WY

RIVERTON RGNL **ILS or LOC Rwy 28**
RNAV (GPS) Rwy 10
RNAV (GPS) Rwy 28
VOR Rwy 10
VOR Rwy 28

NA when local weather not available.

ROCK SPRINGS, WY

ROCK SPRINGS-SWEETWATER
COUNTY **VOR-B**
Category D, 800-2½.

ROSEBURG, OR

ROSEBURG RGNL **RNAV (GPS)-B**
NA when local weather not available.
Categories A, B, 1200-2; Category C, 1200-3;
Category D, 1400-3.

NAME ALTERNATE MINIMUMS

SALEM, OR

MCNARY FIELD **ILS or LOC Rwy 31¹²**
LOC/DME Rwy 31³
RNAV (GPS) Rwy 31¹³

¹NA when local weather not available.

²ILS, Categories A, B, 800-2; Category C, 800-2½; Category D, 800-2½. LOC, Category C, 800-2½; Category D, 800-2½.

³Category D, 800-2½.

SCAPPOOSE, OR

SCAPPOOSE INDUSTRIAL
AIRPARK **VOR/DME or GPS-A**
Category B, 900-2; Category C, 1000-2¾;
Category D 1300-3.

SEATTLE, WA

BOEING FIELD-KING COUNTY
INTL **ILS Rwy 13R¹**
ILS Rwy 31L²
LOC/DME Rwy 13R³
RNAV (GPS) Y Rwy 13R⁴
RNAV (RNP) Z Rwy 13R⁵

¹ILS, Category A, 800-2; Category B, 900-2; Category C, 900-2½; Category D, 1000-3.

²Category A, 800-2; Category B, 900-2; Category C, 900-2½; Category D, 1000-3.

³Category B, 900-2; Category C, 900-2½; Category D, 1000-3.

⁴Category B, 900-2; Category C, 900-2¾; Category D, 1000-3.

⁵Categories A, B, C, D, 800-2½.

SHERIDAN, WY

SHERIDAN
COUNTY **ILS or LOC/DME Rwy 32**
RNAV (GPS) Rwy 14
RNAV (GPS) Rwy 32
VOR Rwy 14

NA when local weather not received.
Category D, 800-2½.

SIDNEY, MT

SIDNEY-RICHLAND MUNI **NDB Rwy 1¹**
NDB Rwy 19²

¹Category D, 800-2½.

²Categories C, D, 800-2½.

ALTERNATE MINS

NAME ALTERNATE MINIMUMS

SPOKANE, WA

FELTS FIELD ILS/DME Rwy 21R¹
RNAV (GPS)-A²
RNAV (GPS) Rwy 3L²
VOR Rwy 3L^{3,4}

- ¹Categories A,B, 1000-2; Category C, 1000-2½.
²Categories A,B, 1000-2; Category C, 1000-2½; Category D, 1000-3.
³Categories A, B, 1000-2; Categories C, D, 1000-3.
⁴NA when local weather not available.

SPOKANE INTL ILS or LOC Rwy 3¹
ILS or LOC/DME Rwy 21¹
VOR Rwy 3²

- ¹ILS, Category D, 700-2.
²Category E, 800-2½.

TACOMA, WA

TACOMA NARROWS ILS Rwy 17¹
NDB Rwy 35¹
RNAV (GPS) Rwy 17^{1,2}
RNAV (GPS) Rwy 35^{2,3}

- ¹NA when control tower closed.
²Category D, 800-2½.
³NA when local weather not available.

THE DALLES, OR

COLUMBIA GEORGE RGNL/
THE DALLES MUNI RNAV (GPS)-A
Categories A,B, 1100-2; Category C, 1100-3;
Category D, 1200-3.

TWIN FALLS, ID

JOSLIN FIELD-MAGIC VALLEY
RGNL ILS or LOC Rwy 25¹
NDB Rwy 25
RNAV (GPS) Rwy 7
RNAV (GPS) Rwy 25
VOR Rwy 7²

- NA when local weather not available.
¹ILS, Category D, 700-2; Category E, 900-3.
LOC, Category E, 900-3.
²Category C, 800-2½; Category D, 800-2½.

WALLA WALLA, WA

WALLA WALLA RGNL ILS or LOC Rwy 20¹
NDB Rwy 20, 1000-3
RNAV (GPS) Rwy 2^{2,3}
RNAV (GPS) Rwy 16²
RNAV (GPS) Rwy 20²
VOR/DME Rwy 2²

- ¹ILS, LOC, Categories A,B, 1100-2; Categories C, D, 1100-3.
²Category D, 800-2½.
³NA when local weather not available.

NAME ALTERNATE MINIMUMS

WENATCHEE, WA

PANGBORN
MEMORIAL ILS Y Rwy 12, 1300-4
VOR/DME-C^{1,2}
VOR/DME-A³

- ¹NA when local weather not available.
²Categories A, B, 1500-2; Categories C, D, 1500-3.
³Categories A, B, 2000-2; Categories C, D, 2000-3.

WOLF POINT, MT

L.M. CLAYTON RNAV (GPS) Rwy 11
RNAV (GPS) Rwy 29

NA when local weather not available.

WORLAND, WY

WORLAND MUNI VOR or GPS Rwy 16
Categories C,D, 800-2½.

YAKIMA, WA

YAKIMA AIR TERMINAL/
MCALLISTER FIELD ILS Y Rwy 27^{1,2}
ILS Z Rwy 27^{1,3}
LOC/DME BC-B^{1,4}
RNAV (GPS) Y Rwy 27⁵
RNAV (GPS) Z Rwy 27⁴
VOR/DME or TACAN Rwy 27⁶
VOR-A⁷

- ¹NA when control tower closed.
²ILS, Categories A, B, 600-2½; Category C, 700-2½; Category D, 800-2½.
³Category C, 700-2; Category D, 800-2½
⁴Category D, 800-2½.
⁵Category C, 800-2½; Category D, 800-2½.
⁶Categories A, B, 1100-2; Categories C, D, 1100-3.
⁷Category C, 800-2½; Category D, 800-2½.

INSTRUMENT APPROACH PROCEDURE CHARTS

IFR TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

Civil Airports and Selected Military Airports

ALL USERS: Airports that have Departure Procedures (DPs) designed specifically to assist pilots in avoiding obstacles during the climb to the minimum enroute altitude, and/or airports that have civil IFR take-off minimums other than standard, are listed below. Take-off Minimums and Departure Procedures apply to all runways unless otherwise specified. Altitudes, unless otherwise indicated, are minimum altitudes in MSL.

DPs specifically designed for obstacle avoidance are referred to as Obstacle Departure Procedures (ODPs) and are described below in text, or published separately as a graphic procedure. If the (Obstacle) DP is published as a graphic procedure, its name will be listed below, and it can be found in either this volume (civil), or a separate Departure Procedure volume (military), as appropriate. Users will recognize graphic obstacle DPs by the term "(OBSTACLE)" included in the procedure title; e.g., TETON TWO (OBSTACLE). If not assigned a SID or radar vector by ATC, an ODP may be flown without ATC clearance to ensure obstacle clearance.

Graphic DPs designed by ATC to standardize traffic flows, ensure aircraft separation and enhance capacity are referred to as "Standard Instrument Departures (SIDs)". SIDs also provide obstacle clearance and are published under the appropriate airport section. ATC clearance must be received prior to flying a SID.

CIVIL USERS NOTE: Title 14 Code of Federal Regulations Part 91 prescribes standard take-off rules and establishes take-off minimums for certain operators as follows: (1) Aircraft having two engines or less - one statute mile. (2) Aircraft having more than two engines - one-half statute mile. These standard minima apply in the absence of any different minima listed below.

MILITARY USERS NOTE: Civil (nonstandard) take-off minima are published below. For military take-off minima, refer to appropriate service directives.

NAME TAKE-OFF MINIMUMS

AFTON, WY

AFTON MUNI

DEPARTURE PROCEDURE: **Rwy 16**, Use LUNDI DEPARTURE. **Rwy 34**, use AFTON DEPARTURE.

ALBANY, OR

ALBANY MUNI

DEPARTURE PROCEDURE: **Rwy 16**, turn right. **Rwy 34**, turn left. All aircraft climb direct CVO VOR/DME and continue climb in CVO VOR/DME holding pattern, (E, right turns, 261° inbound) to cross CVO VOR/DME at or above 3000.

ANACONDA, MT

BOWMAN FIELD

TAKE-OFF MINIMUMS: **Rwy 4**, std. w/min. climb of 417' per NM to 9000, or 2800-3 for climb in visual conditions. **Rwy 17**, std. w/min. climb of 321' per NM to 10200, or 2800-3 for climb in visual conditions. **Rwy 22**, NA-obstacles. **Rwy 35**, std. w/min. climb of 369' per NM to 9100, or 2800-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 4, 35**, climbing right turn to 10200 via heading 130° and CPN VOR/DME R-340 to CPN VOR/DME, continue climb-in-hold to 10200 (north, left turn, 166° inbound), or for climb in visual conditions, cross Bowman Field Airport at or above 7700 then proceed via CPN R-309 to CPN VOR/DME, continue climb-in-hold to 10200 (north, left turn, 166° inbound).

NAME TAKE-OFF MINIMUMS

BOWMAN FIELD(CON'T)

Rwy 17, climbing left turn to 10200 via heading 100° and CPN VOR/DME R-335 to CPN VOR/DME, continue climb-in-hold to 10200 (north, left turn, 166° inbound), or for climb in visual conditions, cross Bowman Field Airport at or above 7700 then proceed via CPN R-309 to CPN VOR/DME, continue climb-in-hold to 10200 (north, left turn, 166° inbound).

NOTE: **Rwy 17**, multiple trees beginning 865' from departure end of runway, 243' left of centerline, up to 70' AGL/5097' MSL. Rod on hangar 570' from departure end of runway, 278' left of centerline, 54' AGL/5054' MSL. Multiple trees beginning 787' from departure end of runway, 165' right of centerline, up to 70' AGL/5098' MSL. Multiple transmission lines beginning 4602' from departure end of runway, 1664' right of centerline, 80' AGL/5159' MSL. **Rwy 35**, multiple transmission lines beginning 2242' from departure end of runway, 964' left of centerline, up to 80' AGL/5159' MSL.

ARCO, ID

ARCO-BUTTE COUNTY (AOC)

AMDT 1 08157 (FAA)

TAKE-OFF MINIMUMS: **Rwy 6**, NA - Obstacles. DEPARTURE PROCEDURE: Use JATTS DEPARTURE.

ARLINGTON, WA**ARLINGTON MUNI**

TAKE-OFF MINIMUMS: **Rwy 11**, 600-2 or std. with a min. climb of 350' per NM to 700. **Rwy 34**, 500-2 or std. with a min. climb of 260' per NM to 700.

DEPARTURE PROCEDURE: **Rwy 11**, turn right.

Rwy 16, climb direct to WATON LOM. **Rwys 29, 34**, turn left. **All aircraft** climb direct to WATON LOM. Aircraft departing WATON LOM on bearings 150° CW 200° and bearings 260° CW 340° from WATON LOM continue climb on course. Aircraft departing WATON LOM on bearings 340° CW 150° from WATON LOM climb in holding pattern (S, left turns, 339° inbound) to 4500 then continue climb on course. Aircraft departing WATON LOM on bearings 200° CW 260° from WATON LOM climb in holding pattern (S, left turns, 339° inbound) to 1500 then continue climb on course.

ASTORIA, OR**ASTORIA RGNL**

TAKE-OFF MINIMUMS: **Rwy 8**, 800-3 or std. with a min. climb of 320' per NM to 900. **Rwy 13**, 700-2 or std. with a min. climb of 350' per NM to 800.

DEPARTURE PROCEDURE: **Rwys 8, 31**, turn left.

Rwy 13, climb runway heading to 800 then climbing right turn. **Rwy 26**, turn right. Aircraft departing northwestbound climb via AST R-290 on course.

All other aircraft climb to 1500 or above via AST R-290 then left turn to AST VOR/DME and continue climbing on course.

AUBURN, WA**AUBURN MUNI**

DEPARTURE PROCEDURE: Use AUBURN DEPARTURE.

AURORA, OR**AURORA STATE**

DEPARTURE PROCEDURE: **Rwy 17**, turn right,

thence... **Rwy 35**, turn left, thence...

...Aircraft proceeding via V23 climb on course; All others climb in UBG VOR/DME holding pattern (hold south, left turn, 003° inbound) to cross UBG VOR/DME at or above MEA/MCA for direction of flight.

NOTE: **Rwy 17**, multiple trees 31' from departure end of runway, 273' right of centerline, up to 90' AGL/270' MSL.

Multiple trees beginning 979' from departure end of runway, 247' right of centerline up to 113' AGL/316' MSL.

Road 254' from departure end of runway, 350' left of centerline, 16' AGL/209' MSL. **Rwy 35**, multiple trees and road beginning 31' from departure end of runway, 163' left of centerline, up to 138' AGL/329' MSL.

Multiple trees beginning 973' from departure end of runway, 281' right of centerline, up to 58' AGL/253' MSL.

BAKER, MT**BAKER MUNI**

NOTE: **Rwy 13**, 51' derrick 2200' from departure end of runway on centerline. 100' trees south of airport, near runway, various locations. **Rwy 31**, 146' antenna on tower 4000' from departure end of runway, 1800' left of centerline. 114' rod on OL antenna 3800' from departure end of runway on centerline.

BAKER CITY, OR**BAKER CITY MUNI**

TAKE-OFF MINIMUMS: **Rwy 8**, 900-2 or std. with a min. climb of 315' per NM to 6000, (788' per min. at 150K, 1050' per min. at 200K, 1313' per min. at 250K).

Rwy 13, 1400-2 or std. with a min. climb of 310' per NM to 6000 (775' per min. at 150K, 1033' per min. at 200K, 1292' per min. at 250K). **Rwy 17, NA. Rwy 31**, 1300-2 or std. with a min. climb of 240' per NM to 6000 (600' per min. at 150K, 800' per min. at 200K, 1000' per min. at 250K). **Rwy 35**, CAT C, D 1000-2; or std. with a min. climb of 240' per NM to 6000 (600' per min. at 150K, 800' per min. at 200K, 1000' per min. at 250K).

DEPARTURE PROCEDURE: **Rwys 8, 13**, turn left.

Rwys 26, 31, 35, turn right. **All aircraft** climb direct BKE VOR/DME. Continue climb in BKE holding pattern (SE, right turns, 298° inbound) to cross BKE VOR/DME at or above MCA or MEA for route of flight.

BELLINGHAM, WA**BELLINGHAM INTL**

DEPARTURE PROCEDURE: **Rwy 16**, climb heading 160° to 600, then climbing right turn direct HUH VORTAC. Do not exceed 210 KIAS until established northbound. **Rwy 34**, climb heading 340° to 600, then climbing left turn to intercept HUH R-145 to HUH VORTAC, continue climb in holding pattern (northwest, right turn, 149° inbound) to MEA as appropriate for direction of flight.

NOTE: **Rwy 16**, lighted windsock 9' from departure end of runway, 259' right of centerline, 16' AGL/181' MSL.

Multiple trees beginning 747' from departure end of runway, 405' right of centerline, up to 68' AGL/213' MSL.

Multiple trees beginning 1128' from departure end of runway, 57' left of centerline, up to 104' AGL/249' MSL.

Rwy 34, lighted windsock 93' from departure end of runway, 516' right of centerline, 27' AGL/169' MSL. multiple trees beginning 1372' from departure end of runway, 619' right of centerline, up to 134' AGL/246' MSL.

BEND, OR**BEND MUNI (BDN)****AMDT 4 09183 (FAA)**

DEPARTURE PROCEDURE: Use BEND DEPARTURE.

BIG PINEY, WY**MILEY MEMORIAL FIELD**

TAKE-OFF MINIMUMS: **Rwys 8, 26**, NA.

DEPARTURE PROCEDURE: **Rwy 13**, climb to 8400 via BPI R-124. **Rwy 31**, climb to 10800 via BPI R-320 thence all aircraft climb on course.

BILLINGS, MT

BILLINGS LOGAN INTL (BIL)

AMDT 5 08101 (FAA)

TAKE-OFF MINIMUMS: **Rwy 10R**, NA- Obstacles.DEPARTURE PROCEDURE: **Rwy 10L**, Climb heading 098° to 4600 before turning right.

NOTE: **Rwy 10L**, fence 466' from departure end of runway, 535' right of centerline, 11' AGL/3511' MSL, cars on road, beginning from 624' from departure end of runway, 427' right of centerline, 15' AGL/3523' MSL, ground beginning 21' from departure end of runway, 499' right of centerline, 0' AGL/3505' MSL. **Rwy 25**, airport security fence, abeam departure end of runway, 500' left of centerline, 11' AGL/3672' MSL to 1200' from departure end of runway, abeam rwy centerline, 11' AGL/3672' MSL.

BLACKFOOT, ID

MCCARLEY FIELD

DEPARTURE PROCEDURE: **Rwy 1**, climb to 7000 (or higher assigned altitude) direct IDA VOR/DME, before proceeding on course. **Rwy 19**, climb to 7000 (or higher assigned altitude) direct PIH VORTAC, before proceeding on course.

BOISE, ID

BOISE AIR TERMINAL / GOWEN FIELD (BOI)

AMDT 6 10042 (FAA)

DEPARTURE PROCEDURE: Use GOWEN DEPARTURE.

BOZEMAN, MT

GALLATIN FIELD (BZN)

AMDT 3 08213 (FAA)

TAKE-OFF MINIMUMS: **Rwys 3, 21**, NA-ATC.

DEPARTURE PROCEDURE: **Rwys 12, 30**, use BOZEMAN DEPARTURE.

BREMERTON, WA

BREMERTON NATIONAL (PWT)

AMDT 3 08045 (FAA)

TAKE-OFF MINIMUMS: **Rwy 1**, 300-1 or std. w/min. climb of 410' per NM to 700.

DEPARTURE PROCEDURE: **Rwy 1**, Climbing right turn to 6000 direct CAN NDB, Thence... **Rwy 19**, Climb to 6000 direct CAN NDB, thence...

...Continue climb-in-hold (S, LT, 013° inbound) to 6000 before proceeding on course.

NOTES: **Rwy 1**, Multiple bushes 380' from departure end of runway, 522' left of centerline, up to 17' AGL/456' MSL, multiple trees and poles beginning 1210' from departure end of runway, 622' left of centerline, up to 100' AGL/561' MSL, multiple trees and bushes 1012' from departure end of runway, 708' right of centerline, up to 100' AGL/495' MSL. **Rwy 19**, Multiple trees beginning 176' from departure end of runway, 337' left of centerline, up to 100' AGL/514' MSL, multiple trees beginning 371' from departure end of runway, 277' right of centerline, up to 100' AGL/548' MSL.

BUFFALO, WY

JOHNSON COUNTY

TAKE-OFF MINIMUMS: Northbound aircraft:

Rwys 13, 31, 2400-2 or std. with a min. climb of 300' per NM to 7500. Southbound aircraft: **Rwy 31**, 400-2 or std. with a min climb of 300' per NM to 6000.

DEPARTURE PROCEDURE: Northbound aircraft:

Rwy 13, turn left. **Rwy 31**, climb straight ahead.**All aircraft** proceed via SHR R-139 to SHR VORTAC.Southbound aircraft: **Rwy 13**, climb straight ahead.**Rwy 31**, turn right. **All aircraft** proceed via CZI R-319 to CZI VOR/DME.**BURLEY, ID**

BURLEY MUNI (BYI)

AMDT 5 10042 (FAA)

TAKE-OFF MINIMUMS: **Rwy 24**, 300-1½ or std. w/min. climb of 428' per NM to 4500.

DEPARTURE PROCEDURE: **Rwy 2**, climbing left turn direct BYI VOR/DME, continue climb in BYI VOR/DME holding pattern (hold Northwest right turns, 125° inbound) to cross BYI VOR/DME at or above MEA for route of flight. **Rwy 6**, climbing left turn direct BYI VOR/DME, continue climb in BYI VOR/DME holding pattern (hold Northwest right turns, 125° inbound) to cross BYI VOR/DME at or above MEA for route of flight. **Rwy 20**, climbing right turn direct BYI VOR/DME, continue climb in BYI VOR/DME holding pattern (hold Northwest right turns, 125° inbound) to cross BYI VOR/DME at or above MEA for route of flight. **Rwy 24**, climbing right turn direct BYI VOR/DME, continue climb in BYI VOR/DME holding pattern (hold Northwest right turns, 125° inbound) to cross BYI VOR/DME at or above MEA for route of flight.

NOTE: **Rwy 2**, obstruction light on bridge 252' from DER, 513' left of centerline, 57' AGL/4195' MSL. Trees beginning 686' from DER, 201' right of centerline, up to 35' AGL/4184' MSL. Tree 694' from DER, 375' left of centerline, 29' AGL/4178' MSL. Obstruction light on building 736' from DER, 188' left of centerline, 11' AGL/4161' MSL. Tower 803' from DER, 590' left of centerline, 55' AGL/4204' MSL. Vehicles on road beginning 857' from DER, 1' right of centerline, up to 17' AGL/4168' MSL. Poles beginning 1226' from DER, 549' left of centerline, up to 72' AGL/4222' MSL. Building vent 1240' from DER, 164' left of centerline, 27' AGL/4177' MSL. Stack 2206' from DER, 856' right of centerline, 86' AGL/4236' MSL. Stack 2573' from DER, 614' left of centerline, 86' AGL/4236' MSL. Elevators beginning 3980' from DER, 131' right of centerline, up to 133' AGL/4283' MSL. **Rwy 6**, trees beginning 46' from DER, 172' right of centerline, up to 14' AGL/4163' MSL. Rising terrain beginning 49' from DER, 326' right of centerline, up to 4149' MSL. Bush 150' from DER, 103' right of centerline, 5' AGL/4147' MSL. Antenna 586' from DER, 398' left of centerline, 15' AGL/4165' MSL. Obstruction light on bridge 1061' from DER, 80' right of centerline, 39' AGL/4179' MSL.

BURLEY MUNI (BYI) (CON'T)

Rwy 20, obstruction light pole 42' from DER, 124' left of centerline, 16' AGL/4170' MSL. Railroad beginning 65' from DER, 4' left of centerline, up to 23' AGL/4177' MSL. Sign 181' from DER, 121' right of centerline, 18' AGL/4172' MSL. Vehicles on road 162' from DER, 2' left of centerline, 17' AGL/4169' MSL. Vehicles on road beginning 335' from DER 348' right of centerline up to 17' AGL/4171' MSL. Pole 446' from DER, 210' right of centerline, 26' AGL/4180' MSL. Antenna 523' from DER, 337' right of centerline, 63' AGL/4217' MSL. Tree 586' from DER, 213' right of centerline, 28' AGL/4182' MSL. Trees beginning 2014' from DER, 339' left of centerline, up to 96' AGL/4251' MSL.

Rwy 24, vehicles on road beginning 25' from DER, 9' left of centerline, up to 15' AGL/4169' MSL. Fence 58' from DER, 8' left of centerline, 4' AGL/4154' MSL. Rising terrain beginning 69' from DER, 201' right of centerline, up to 4154' MSL. Railroad 152' from DER, 6' left of centerline, 23' AGL/4176' MSL. Trees beginning 427' from DER, 101' right of centerline, up to 69' AGL/4223' MSL. Vehicles on road beginning 509' from DER, 586' right of centerline, up to 15' AGL/4169' MSL. Railroad beginning 568' from DER, 288' right of centerline, up to 23' AGL/4177' MSL. Pole 735' from DER, 185' left of centerline, 18' AGL/4172' MSL. Light standard 824' from DER, 58' right of centerline, 23' AGL/4177' MSL. Antenna 1630' from DER, 112' left of centerline, 58' AGL/4212' MSL. Tower 2766' from DER, 175' left of centerline, 123' AGL/4282' MSL. Tower 3570' from DER, 158' right of centerline, 157' AGL/4312' MSL. Obstruction light on elevators beginning 3115' from DER, 164' left of centerline, up to 184' AGL/4344' MSL.

BURLINGTON/MOUNT VERNON, WA

SKAGIT RGNL (BVS)

ORIG-A 08297 (FAA)

TAKE-OFF MINIMUMS: **Rwy 4**, 3000-2 or std. with a min. climb of 340' per NM to 3600. **Rwy 10**, 1700-2 or std. with a min. climb of 245' per NM to 2300. **Rwy 22**, 1300-2 or std. with a min. climb of 210' per NM to 1800.

DEPARTURE PROCEDURE: **Rwys 4, 10, 22**, turn right heading 280°. **Rwy 28**, climb runway heading.

All aircraft climb to 2500 then turn right direct BVS NDB to cross BVS at or above 4500. Aircraft departing on BVS R-145 CWR-330 climb on course. All others continue climbing in BVS holding pattern (NW, right turns 113° inbound) to cross BVS at or above 6800 before proceeding on course.

NOTE: **Rwy 4**, tree 2581' from departure end of runway, 426' left of centerline, 100' AGL/212' MSL. Light pole 1489' from departure end of runway, 136' left of centerline 35' AGL/137' MSL. Bush 126' from departure end of runway, 430' right of centerline, 20' AGL/101' MSL. Building 2925' from departure end of runway, 130' left of centerline, 60' AGL/180' MSL.

BURNS, OR

BURNS MUNI

DEPARTURE PROCEDURE: **Rwy 3**, climbing right turn, thence... **Rwy 12**, climb to 4600 via heading 117°, thence... **Rwys 21, 30**, climbing left turn, thence...
...All aircraft departing on ILR R-072 CWR R-209, climb on course. All others climb on ILR R-123 within 10 NM to cross ILR VOR/DME at or above 5000.

NOTE: **Rwy 21**, pole 820' from departure end of runway, 357' left of centerline, 20' AGL/4169' MSL.

BUTTE, MT

BERT MOONEY

TAKE-OFF MINIMUMS: **Rwy 11**, NA-obstacles. **Rwy 15**, std. w/ min. climb of 601' per NM to 7300, or 3300-3 for climb in visual conditions. **Rwy 29**, std. w/ min. climb of 832' per NM to 6700, or 3300-3 for climb in visual conditions. **Rwy 33**, std. w/ min. climb of 355' per NM to 6800, or 3300-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 15**, climbing right turn direct CPN VOR/DME, or for climb in visual conditions: Cross Bert Mooney Airport westbound at or above 8800 then proceed direct CPN VOR/DME, thence... **Rwy 29**, climb heading 293° to intercept CPN VOR/DME R-082 to CPN VOR/DME, or for climb in visual conditions: Cross Bert Mooney Airport westbound at or above 8800 then proceed direct CPN VOR/DME, thence... **Rwy 33**, climb direct CPN VOR/DME, or for climb in visual conditions: Cross Bert Mooney Airport westbound at or above 8800 then proceed direct CPN VOR/DME, thence...

...climb in CPN VOR/DME holding pattern (hold north, left turn, 166° inbound) to cross CPN VOR/DME at or above MEA before proceeding enroute.

NOTE: **Rwy 15**, multiple trees beginning 2 NM from departure end of runway, 1779' right of centerline, up to 100' AGL/6659' MSL. Tree 2.1 NM from departure end of runway, 66' left of centerline, 100' AGL/5934' MSL.

Rwy 29, multiple trees and poles beginning 364' from departure end of runway, 7' right of centerline, up to 100' AGL/5621' MSL. Multiple trees and lights beginning 322' left of centerline, up to 100' AGL/5582' MSL. Terrain and numerous trees beginning 1.2 NM from departure end of runway, 1022' left of centerline, up to 100' AGL/6379' MSL. **Rwy 33**, flag pole 1095' from departure end of runway, 730' left of centerline, 64' AGL/5583' MSL.

CALDWELL, ID

CALDWELL INDUSTRIAL

TAKE-OFF MINIMUMS: **Rwy 12**, std. with a min. climb of 300' per NM to 5600, or 2400-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 12**, climb via heading 119° to 5600 before proceeding on course. For climb in visual conditions: Cross Caldwell Industrial Airport at or above 4800 before proceeding on course. **Rwy 30**, climb via heading 299° to 4400 before proceeding on course.

NOTE: **Rwy 12**, levee 198' from departure end of runway, 281' left of centerline, 0' AGL/2451' MSL. Multiple trees 1462' from departure end of runway, 877' right of centerline, up to 100' AGL/2505' MSL. **Rwy 30**, multiple poles 206' from departure end of runway, 389' right of centerline, up to 39' AGL/2457' MSL. Rod 353' from departure end of runway, 246' right of centerline, 21' AGL/2439' MSL.

CASPER, WY

CASPER/NATRONA COUNTY INTL (CPR)
AMDT 3A 09155 (FAA)

DEPARTURE PROCEDURE: **Rwys 3,8,12**, turn left.

All other runways, turn right. **All aircraft** climb direct DDY VORTAC before proceeding on course, or comply with published Casper SIDs.

CHEHALIS, WA

CHEHALIS-CENTRALIA

DEPARTURE PROCEDURE: **Rwy 16**, climb to 1000 via heading 160° then climbing left turn to 4000 via heading 001° and OLM R-151 to OLM VORTAC before proceeding on course. **Rwy 34**, climb to 4000 via heading 340° and OLM R-176 to OLM VORTAC before proceeding on course.

CHEYENNE, WY

CHEYENNE RGNL/JERRY OLSON FIELD

NOTE: **Rwy 13**, multiple trees beginning 74' from departure end of runway, 115' left of centerline, up to 40' AGL/6166' MSL. Multiple trees, pole, and fence beginning 34' from departure end of runway, 167' right of centerline, up to 40' AGL/6154' MSL. **Rwy 27**, multiple trees and poles beginning 525' from departure end of runway, 271' left of centerline, up to 40' AGL/6216' MSL. Multiple trees and poles beginning 1222' from departure end of runway, 275' right of centerline, up to 40' AGL/6211' MSL. **Rwy 31**, multiple trees, road, fence and sign beginning 196' from departure end of runway, 76' left of centerline, up to 40' AGL/6238' MSL. Multiple poles and sign beginning 407' from departure end of runway, 8' left of centerline, up to 69' AGL/6229' MSL.

CODY, WY

YELLOWSTONE RGNL (COD)

AMDT 4 10042 (FAA)

TAKE-OFF MINIMUMS: **Rwy 4**, std. with a min. climb of 400' per NM to 8000' or 4200-3 for climb in visual conditions. **Rwy 22**, std. with a min. climb of 385' per NM to 7400' or 4200-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 4**, climb heading 038° to 5900, then climbing left turn via COD R-171 to COD VOR/DME or for climb in visual conditions to cross Yellowstone Rgnl at or above 9400, then via COD R-189 to COD VOR/DME to cross COD VOR/DME at or above MEA for route of flight. **Rwy 22**, climb heading 218° to 6600, then climbing left turn via COD R-180 to COD VOR/DME or for climb in visual conditions to cross Yellowstone Rgnl at or above 9400, then via COD R-189 to COD VOR/DME to cross COD VOR/DME at or above MEA for route of flight.

NOTE: **Rwy 4**, trees beginning 100' from DER, 262' right of centerline, up to 79' AGL/5199' MSL. Rising terrain beginning 1723' from DER, 304' right of centerline, up to 5146' MSL. **Rwy 22**, poles beginning 1 NM from DER, 406' right of centerline, up to 60' AGL/5332' MSL. Rising terrain beginning 1 NM from DER, 109' right of centerline, up to 6235' MSL. Rising terrain beginning 5074' from DER, 131' left of centerline, up to 5428' MSL.

COEUR D'ALENE, ID

COEUR D'ALENE-PAPPY BOYINGTON FIELD (COE)

AMDT 9 10042 (FAA)

DEPARTURE PROCEDURE: use COEUR D'ALENE DEPARTURE.

COLSTRIP, MT

COLSTRIP (M46)

AMDT 2 08157 (FAA)

TAKE-OFF MINIMUMS: **Rwy 6** use CISPU (RNAV)

DEPARTURE: **Rwy 24**, use CONUK (RNAV) DEPARTURE.

CONRAD, MT

CONRAD

DEPARTURE PROCEDURE: **Rwy 24**, climb runway heading to 4300, then continue climb on course.

CORVALLIS, OR

CORVALLIS MUNI

TAKE-OFF MINIMUMS: **Rwys 9, 17, 35**, std. with a min. climb of 290' per NM to 3100 or 1700-3 for climb in visual conditions.

Rwy 27, std. with a min. climb of 310' per NM to 3100 or 1700-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 9, 17**, climbing left turn direct CVO VOR/DME, thence...or, climb in visual conditions to cross CVO VOR/DME at or above 3400.

Rwys 27, 35, climbing right turn direct CVO VOR/DME, thence...or, climb in visual conditions to cross CVO VOR/DME at or above 3400.

...climb in CVO VOR/DME holding pattern (E, RT, 261° inbound) to depart at or above 3400.

NOTE: **Rwy 9**, multiple trees and railroad beginning 549' from departure end of runway, 254' left of centerline, up to 153' AGL/383' MSL. Multiple trees and railroad beginning 670' from departure end of runway, 5' right of centerline, up to 135' AGL/380' MSL. **Rwy 27**,

obstruction light on glideslope 409' from departure end of runway, 325' left of centerline, 28' AGL/273' MSL.

Rwy 35, multiple trees beginning 470' from departure end of runway, 544' left of centerline up to 36' AGL/276' MSL.

COWLEY/LOVELL/BYRON, WY

NORTH BIG HORN COUNTY

DEPARTURE PROCEDURE: **Rwys 9, 27**, aircraft departing via HCY NDB bearings 130° CW 225° climb on course, all others climb in HCY NDB holding pattern (W, right turns, 078° inbound) to cross HCY NDB at or above 9000.

DEER PARK, WA

DEER PARK (DEW)
AMDT 1 10098 (FAA)

TAKE-OFF MINIMUMS: **Rwy 34**, 300-1½ or std. with a min. climb of 455' per NM to 2500.

DEPARTURE PROCEDURE: **Rwy 4**, climbing right turn heading 165° and GEG VORTAC R-006 to GEG VORTAC. **Rwy 16**, climb heading 164° and GEG VORTAC R-006 to GEG VORTAC. **Rwy 22**, climbing left turn heading 155° and GEG VORTAC R-006 to GEG VORTAC. **Rwy 34**, climbing right turn heading 165° and GEG VORTAC R-006 to GEG VORTAC.

NOTE: **Rwy 4**, aircraft 261' from DER, 511' left of centerline, up to 21' AGL/2210' MSL. Trees beginning 1809' from DER, 413' left of centerline, up to 109' AGL/2299' MSL. Aircraft 104' from DER, 186' right of centerline, up to 21' AGL/2200' MSL. Trees beginning 1667' from DER, 373' right of centerline, up to 116' AGL/2319' MSL. **Rwy 16**, trees beginning 31' from DER, 455' left of centerline, up to 109' AGL/2279' MSL. Trees beginning 2587' from DER, 621' right of centerline, up to 104' AGL/2264' MSL. **Rwy 22**, trees beginning 1461' from DER, 211' right of centerline, up to 90' AGL/2270' MSL. **Rwy 34**, aircraft 23' from DER, 218' left of centerline, up to 21' AGL/2230' MSL. Trees beginning 2678' from DER, 18' left of centerline, up to 165' AGL/2375' MSL. Vehicles beginning 74' from DER, 339' right of centerline, up to 15' AGL/2234' MSL. Trees beginning 2219' from DER, 260' right of centerline, up to 100' AGL/2382' MSL.

DILLON, MT

DILLON

TAKE-OFF MINIMUMS: **Rwys 3, 21**, NA.

DEPARTURE PROCEDURE: **Rwys 16, 34**, turn right, climb in DLN VOR/DME holding pattern (N, right turns, 185° inbound) to cross DLN VOR/DME at or above; northwestbound V257 8500; southwestbound V121 8500; northbound V21 7600; southeastbound V21, V257 9400.

DOUGLAS, WY

CONVERSE COUNTY

TAKE-OFF MINIMUMS: **Rwy 5**, 300-2 or std. with a min. climb of 250' per NM to 5200. **Rwy 23**, 1700-3 or std. with a min. climb of 260' per NM to 7200.

DEPARTURE PROCEDURE: **Rwy 5**, climbing right turn via IIP VOR/DME R-342 to IIP VOR/DME. **Rwy 11**, climbing right turn via IIP VOR/DME R-312 to IIP VOR/DME. **Rwy 23**, climbing left turn via IIP VOR/DME R-264 to IIP VOR/DME. **Rwy 29**, climbing right turn via IIP VOR/DME R-325 to IIP VOR/DME. **All aircraft** departing IIP R-253 CW R-180 climb on course. All others continue climb in IIP VOR/DME holding pattern (NW, left turns, 125° inbound) to cross IIP VOR/DME at or above: R-181 CW R-199 9600; R-200 CW R-252 8000.

NOTE: **Rwy 5**, trees 1883' from departure end of runway, 549' right of centerline, 35' AGL/5014' MSL. Trees 3407' from departure end of runway, 209' right of centerline, 35' AGL/5074' MSL. Trees 5458' from departure end of runway, 1954' right of centerline, 35' AGL/5132' MSL. **Rwy 23**, trees 2068' from departure end of runway, 1008' left of centerline, 35' AGL/4994' MSL. Trees 3130' from departure end of runway, 1215' left of centerline, 35' AGL/5014' MSL.

DRIGGS, ID

DRIGGS-REED MEMORIAL (DIJ)
AMDT 2 08157 (FAA)

DEPARTURE PROCEDURE: Use LAMON DEPARTURE.

EASTSOUND, WA

ORCAS ISLAND (ORS)

AMDT 1 09351 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, NA-Terrain. **Rwy 34**, 500-3 or std. w/ min. climb of 224' per NM to 600.

DEPARTURE PROCEDURE: **Rwy 34**, climbing right turn to 2000 to intercept HUH VORTAC R-210 to HUH VORTAC, then climb-in-hold (hold South, Left turns, 352° inbound) to cross HUH VORTAC at or above 3800 before proceeding on course.

NOTE: **Rwy 34**, trees beginning 330' from DER, 411' left of centerline, up to 120' AGL/139' MSL.

ELLENBURG, WA

BOWERS FIELD

TAKE-OFF MINIMUMS: **Rwys 7, 11**, 4600-3 or std. with a min. climb of 290' per NM to 7800. **Rwy 25**, 4700-3 or std. with a min. climb of 340' per NM to 7800. **Rwy 29**, 4600-3 or std. with a min. climb of 320' per NM to 7800.

DEPARTURE PROCEDURE: **Rwys 7, 29**, climbing right turn direct ELN VORTAC. **Rwys 11, 25**, climbing left turn direct ELN VORTAC. **All aircraft**, continue climbing in the ELN VORTAC holding pattern (W, right turns, 087° inbound) to MEA/MOCA for route of flight.

EPHRATA, WA

EPHRATA MUNI (EPH)

AMDT 3 09127 (FAA)

TAKE-OFF MINIMUMS: **Rwy 29**, NA-Obstacles.

DEPARTURE PROCEDURE: **Rwy 3**, climb heading 027° to 2300 before proceeding on course. **Rwy 11**, climb heading 112° to 2200 before proceeding on course. **Rwy 21**, climb heading 207° to 2800 before proceeding on course.

EUGENE, OR

MAHLON SWEET FIELD

DEPARTURE PROCEDURE: **Rwys 16L, 16R**, climb to 1000 then climbing right turn... **Rwys 34L, 34R**, climb to 1000 then climbing left turn...

...all aircraft climb direct EUG VORTAC, then climb in EUG VORTAC holding pattern (hold north, right turn, 175° inbound) to cross EUG VORTAC at or above MEA altitude before proceeding enroute.

NOTE: **Rwy 16R**, tree 1992' from departure end of runway, 832' left of centerline, 50' AGL/419' MSL. **Rwy 16L**, multiple trees and power poles beginning 872' from departure end of runway, 35' right of centerline, up to 50' AGL/437' MSL, multiple trees and power poles beginning 890' from departure end of runway, 77' left of centerline, up to 50' AGL/433' MSL. **Rwy 34R**, multiple trees beginning 2869' from departure end of runway, 186' right of centerline, up to 50' AGL/447' MSL. Tree 2535' from departure end of runway, 652' left of centerline, 50' AGL/428' MSL.

EVANSTON, WY

EVANSTON-UINTA COUNTY BURNS FIELD

DEPARTURE PROCEDURE: **Rwy 5**, climb via heading 050° and FBR VOR/DME R-243 to FBR VOR/DME.

Rwy 23, climbing left turn via heading 030° and FBR VOR/DME R-243 to FBR VOR/DME.

All aircraft: cross FBR VOR/DME at or above MEA for direction of flight.

EVERETT, WA

SNOHOMISH COUNTY (PAINE FIELD)

TAKE-OFF MINIMUMS: **Rwy 29**, std. with a min. climb of 353' per NM to 800.

DEPARTURE PROCEDURE: **Rwys 11, 16L/R**, climbing right turn, thence... **Rwys 29, 34L/R**, climbing left turn, thence...

...for aircraft departing via V287 west bound, climb via PAE VOR/DME R-236 to 3000. All others, climb direct PAE VOR/DME, climb in PAE VOR/DME holding pattern (NW, RT, 149° inbound) to MEA for route of flight before proceeding on course.

NOTE: Rwy 11, multiple antennas on building, rod on obstruction light, and trees beginning 326' from departure end of runway, 387' right of centerline, up to 85' AGL/664' MSL. Tree 1156' from departure end of runway, 600' left of centerline, 93' AGL/672' MSL. **Rwy 16L**, multiple trees and pole beginning 588' from departure end of runway, 220' left of centerline, up to 118' AGL/697' MSL. Multiple trees, pole, and building beginning 449' from departure end of runway, 162' right of centerline, up to 78' AGL/657' MSL. **Rwy 16R**, multiple trees beginning 1228' from departure end of runway, 168' left of centerline, up to 140' AGL/699' MSL. Multiple trees beginning 707' from departure end of runway, 158' right of centerline, up to 118' AGL/687' MSL. **Rwy 29**, multiple trees beginning 45' from departure end of runway, 66' left of centerline, up to 111' AGL/630' MSL. Multiple trees beginning 343' from departure end of runway, 44' right of centerline, up to 110' AGL/689' MSL. **Rwy 34R**, multiple trees and pole beginning 3340' from departure end of runway, 180' right of centerline, up to 95' AGL/674' MSL. Tree 5762' from departure end of runway, 221' left of centerline, 103' AGL/682' MSL.

FAIRCHILD AFB (KSKA)

SPOKANE, WA ORIG, 08017

DEPARTURE PROCEDURES: **Rwy 5**, climb on track 048° to intercept SKA R-045 to 5300, then on course. **Rwy 23**, climb on track 241° to 3400, then on course.

TAKE-OFF OBSTACLES: **Rwy 23**, Terrain 2468' MSL, 194' from DER, 405' right of centerline. Terrain 2477' MSL, 461' from DER, 751' right of centerline. Terrain 2477' MSL, 509' from DER, 750' right of centerline.

FORT BENTON, MT

FORT BENTON

TAKE-OFF MINIMUMS: **Rwys 5, 23**, std. w/ min. climb of 274' per NM to 8900 or 5100-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 5, 23**, for climb in visual conditions: Cross Fort Benton Airport at or above 8900 MSL before proceeding on course.

FORT BRIDGER, WY

FORT BRIDGER

DEPARTURE PROCEDURE: **All aircraft** climb direct FBR VOR/DME. Aircraft departing; FBR R-210 CW R-135 climb on course; FBR R-136 CW R-209 cross FBR VOR/DME at or above 9000. (Hold NE, right turns, 215° inbound).

FRIDAY HARBOR, WA

FRIDAY HARBOR

TAKE-OFF MINIMUMS: **Rwy 34**, 500-1.

DEPARTURE PROCEDURE: Aircraft departing FHR NDB **Rwy 34**, climbing right turn direct FHR NDB, then climb on course. All other aircraft climb on course.

GILLETTE, WY

GILLETTE-CAMPBELL COUNTY (GCC)

AMDT 4 09071 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, std. w/ min. climb of 275' per NM to 5600, or 1200-3 for climb in visual conditions. **Rwy 21**, 600-3 or std. w/ min. climb of 425' per NM to 5200.

DEPARTURE PROCEDURE: **Rwy 16**, climb via heading 158° to 5100, before proceeding on course or, for climb in visual conditions cross Gillette-Campbell County airport at or above 5400 before proceeding on course. **Rwy 21**, climb via heading 206° to 5200, before proceeding on course.

NOTE: Rwy 3, windsock 1415' from DER, 100' left of centerline, 24' AGL/4366' MSL. Trees beginning 1976' from DER, 267' right of centerline, up to 30' AGL/4409' MSL. **Rwy 16**, tower and poles beginning 1.61 NM from DER, 1264' left of centerline, up to 57' AGL/4696' MSL. Post and trees beginning 1.77 NM from DER, 300' right of centerline, up to 51' AGL/4789' MSL. **Rwy 21**, fence 328' from DER, 267' left of centerline, 7' AGL/4352' MSL, trees 2077' from DER, 1011' right of centerline, 30' AGL/4449' MSL, tree 7029' from DER, 2378' right of centerline, 30' AGL/4729' MSL. **Rwy 34**, fence 1236' from DER, 723' left of centerline, 16' AGL/4380' MSL. Vehicle on road 1609' from DER, 419' left of centerline, 15' AGL/4394' MSL. Trees 3093' from DER, 936' right of centerline, 30' AGL/4449' MSL. Vehicle on road 1610' from DER. 419' left of centerline, 15' AGL/4380' MSL.

GOODING, ID

GOODING MUNI (GNG)

ORIG 08269 (FAA)

DEPARTURE PROCEDURE: **Rwy 7**, climb heading 068° to 5000 before turning left. **Rwy 25**, climb heading 233° to 5600 before turning right.

NOTE: Rwy 7, rising terrain 59' from departure end of runway, 479' right of centerline, up to 3754' MSL. Fence line 653' from departure end of runway, 332' right of centerline, 12' AGL up to 3751' MSL. Bushes starting 877' from departure end of runway, 420' right of centerline, 20' AGL up to 3795' MSL. **Rwy 25**, vehicle on road, 91' from departure end of runway, 257' left of centerline, up to 10' AGL/3678' MSL.

GRANGEVILLE, ID

IDAHO COUNTY (S80)

AMDT 1 08157 (FAA)

TAKE-OFF MINIMUMS: **Rwy 7**, 10 - Obstacles.

DEPARTURE PROCEDURE: **Rwy 25**, Use MELLR

DEPARTURE.

GRANTS PASS, OR

GRANTS PASS

TAKE-OFF MINIMUMS: **Rwy 12**, NA. **Rwy 30**, 4000-3 or std. with a min. climb of 360' per NM to 5000.

DEPARTURE PROCEDURE: **Rwy 30**, climb via heading 320 until passing 5000, then climbing right turn direct RBG VOR/DME. Cross RBG VOR/DME at or above MEA for route of flight.

GRAY AAF (KGRF)

FORT LEWIS, WA AMDT 2, 10098

Rwy 15, Standard

Rwy 33, 300-1*

* Or standard with minimum climb of 430/NM to 600.

DEPARTURE PROCEDURE: **Rwy 15**, Climb heading 147° to 700 then climbing left turn direct GRF NDB.

Rwy 33, Climb direct GRF NDB. Aircraft departing 330° CW 070° and 135° CW 260° bearing from GRF NDB climb on course. All others continue climb in GRF NDB holding pattern (hold NW, RT, 147° inbound) to cross GRF NDB at or above: 071° CW 134° bearing from GRF NDB, 8500; 261° CW 329° bearing from GRF NDB, 1500.

TAKE-OFF OBSTACLES: **Rwy 15**, Tree 100' AGL/439' MSL, 1848' from DER, 430' right of centerline. **Rwy 33**, Tree 100' AGL/479' MSL, 3465' from DER, 1338' left of centerline.

GREAT FALLS, MT

GREAT FALLS INTL

NOTE: **Rwy 7**, obstruction light on lighted wind sock 237' from departure end of runway, 519' left of centerline, 34' AGL/3694' MSL. Obstruction light on building 2226' from departure end of runway, 614' left of centerline, 78' AGL/3738' MSL. Building on 681' from departure end of runway, 583' right of centerline, 48' AGL/3688' MSL. Multiple light poles beginning 1359' from departure end of runway, 440' right of centerline, up to 90' AGL/3746' MSL. **Rwy 21**, pole 1544' from departure end of runway, 791' left of centerline, 45' AGL/3725' MSL. **Rwy 25**, windmill 2.3 NM from departure end of runway, 4197' right of centerline, 338' AGL/4003' MSL.

GREYBULL, WY

SOUTH BIG HORN COUNTY (GEY)

ORIG-A 09239 (FA)

TAKE-OFF MINIMUMS: **Rwy 25**, 300-1 or std. w/min. climb of 260' per NM to 4200.

DEPARTURE PROCEDURE: **All runways**, for departures on GEY bearings 320° CW 150°, climb in GEY NDB holding pattern to 9000 before departing on course, then continue climb to MEA or assigned altitude. Departures GEY bearings 150° CW 320° climb on course.

NOTE: **Rwy 25**, bush 4955' from DER, 1268' right of centerline, 2' AGL/4101' MSL.

GUERNSEY, WY

CAMP GUERNSEY

TAKE-OFF MINIMUMS: **Rwy 14**, 300-1 or std. with a min. climb of 320' per NM to 4700. **Rwy 32**, 1400-2 or std. with a min. climb of 320' per NM to 5800.

DEPARTURE PROCEDURE: **Rwy 14**, climb to 5600 via heading 150°. **Rwy 32**, climb to 5800 via heading 070°. **All aircraft** continue on course.

HAILEY, ID

FRIEDMAN MEMORIAL

TAKE-OFF MINIMUMS: **Rwy 13**, 2700-3 w/min. climb of 307' per NM to 6400, or 3600-3 for climb in visual conditions. **Rwy 31**, NA-obstacles.

DEPARTURE PROCEDURE: **Rwy 13**, Climbing right turn heading 149°, then on 160° course to HLE NDB, or for climb in visual conditions: cross Friedman Memorial Airport at or above 8800 heading 151°, then on 151° course to HLE NDB.

NOTE: **Rwy 13**, multiple trees beginning 763' from departure end of runway, 3' right of centerline, up to 100' AGL/5345' MSL. Multiple trees beginning 1.3 NM from departure end of runway, 2587' right of centerline, up to 100' AGL/6099' MSL.

HAMILTON, MT

RAVALLI COUNTY

DEPARTURE PROCEDURE: Use HAMEY RNAV DEPARTURE.

HAVRE, MT

HAVRE CITY-COUNTY (HVR)

AMDT 3 09351 (FAA)

TAKE-OFF MINIMUMS: **Rwy 8**, 300-1½ or std. w/min. climb of 217' per NM to 3300.

DEPARTURE PROCEDURE: **Rwy 3**, climb heading 032° to 3300 then climbing left turn to 8000 direct HVR VOR/DME thence...**Rwy 8**, climb heading 077° to 3300 then climbing left turn to 8000 via HVR R-025 to HVR VOR/DME thence...**Rwy 21**, climb heading 212° to 3300 then climbing right turn to 8000 direct HVR VOR/DME thence...**Rwy 26**, climb heading 257° to 3300 then climbing right turn to 8000 direct HVR VOR/DME thence...

...continue climb in hold in HVR VOR/DME holding pattern (hold west, right turns, 094° inbound) to cross HVR VOR/DME at or above 8000 before proceeding on course.

NOTE: **Rwy 3**, pole 2682' from DER, 1044' left of centerline, 21' AGL/2680' MSL. **Rwy 8**, obstruction light on windsock 59' from DER, 224' left of centerline, 9' AGL/2588' MSL. Tree 1192' from DER, 752' left of centerline, 25' AGL/2610' MSL. Tank 1.3 NM from DER, 2287' left of centerline, 57' AGL/2797' MSL. **Rwy 26**, light on windsock, 50' from DER, 225' right of centerline, 9' AGL/2589' MSL. Trees beginning 1617' from DER, 650' right of centerline, 25' AGL/2659' MSL.

HELENA, MT

HELENA RGNL (HLN)
ADMT 9 08269 (FAA)

TAKE-OFF MINIMUMS: **Rwy 5**, 2500-3 or std. w/ min. climb of 250' per NM to 8100, or 1600-3 for climb in visual conditions. **Rwy 9**, std. w/ min. climb of 240' per NM to 8100, or 1600-3 for climb in visual conditions. **Rwy 23**, 1600-3 or std. w/ min. climb of 560' per NM to 8100, or 1600-3 for climb in visual conditions. **Rwy 27**, 1600-3 or std. w/ min. climb of 390' per NM to 8100, or 1600-3 for climb in visual conditions. **Rwys 16, 34, NA**.
DEPARTURE PROCEDURE: **Rwys 5, 9**, climbing left turn heading 270°. **Rwys 23, 27**, climbing right turn heading 020°. **All Aircraft**: continue climb northwestbound via HLN R-318 to 8100, then climbing right turn direct HLN VORTAC, cross HLN VORTAC at or above 9000, before proceeding on course, or for climb in visual conditions: cross Helena Rgnl airport northbound at or above 5300 and continue climbing via HLN R-336 to WOKEN INT before proceeding on course.

NOTE: **Rwy 5**, ground beginning 5' from departure end of runway, 495' right of centerline, up to 3826' MSL. Fence beginning 423' from departure end of runway, 331' right of centerline, up to 10' AGL/3832' MSL. **Rwy 23**, pole 2198' from departure end of runway, 462' left of centerline, 76' AGL/3996' MSL, tree 1011' from departure end of runway, 379' left of centerline, 44' AGL/3964' MSL, rod on building 953' from departure end of runway, 321' left of centerline, 323' AGL/943' MSL, tree 1519' from departure end of runway, 142' right of centerline, 53' AGL/3953' MSL. **Rwy 27**, building 1593' from departure end of runway, 731' left of centerline, 58' AGL/6385' MSL. Ground beginning 101' from departure end of runway, 346' left of centerline, up to 3871' MSL. Tree 1567' from departure end of runway, 616' left of centerline, 47' AGL/3906' MSL.

HERMISTON, OR

HERMISTON MUNI

NOTE: **Rwy 4**, tower 379' left of departure end of runway, 50' AGL/698' MSL. **Rwy 22**, light pole 456' left of departure end of runway, 44' AGL/684' MSL.

HOQUIAM, WA

BOWERMAN

TAKE-OFF MINIMUMS: **Rwy 6**, 600-2 or std. with a min. climb of 260' per NM to 600.
DEPARTURE PROCEDURE: **Rwy 6**, climbing right turn heading 110°. **Rwy 24**, climb runway heading.
All aircraft climb to 600 continue climb on course.

HULETT, WY

HULETT MUNI (W43)
ORIG 07354 (FAA)

TAKE-OFF MINIMUMS: **Rwy 13**, std. w/ min. climb of 450' per NM to 6300, or 500-2½ w/ min. climb of 295' per NM to 7700, or 2200-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 13**, climb to 7700 via heading 132° before proceeding on course, or climb in visual conditions: cross Hulett Muni Airport at or above 6300 before proceeding on course. **Rwy 31**, climbing right turn on a heading between 090° clockwise to 115° from departure end of runway to 7700 before proceeding on course.

NOTE: **Rwy 13**, road 398' from departure end of runway, 37' left of centerline, 15' AGL/4296' MSL, truck on road 1126' from departure end of runway, 346' right of centerline, 15' AGL/4334' MSL, trees beginning 4945' from departure end of runway, across centerline, up to 100' AGL/4657' MSL. **Rwy 31**, terrain 104' from departure end of runway, 420' left of centerline, 4200' MSL, terrain 344' from departure end of runway, 233' left of centerline, 4207' MSL.

IDAHO FALLS, ID

IDAHO FALLS RGNL (IDA)
AMDT 4 09351 (FAA)

DEPARTURE PROCEDURE: **All aircraft** departing IDA R-160 CW R-040 climb on course. **All others** climb direct IDA VOR/DME. Continue climb in IDA holding pattern (South, left turns, 019° inbound) to cross IDA VOR/DME at or above 7500 before proceeding on course.

NOTE: **Rwy 2**, pole 1039' from DER, 758' left of centerline, 42' AGL/4762' MSL. **Rwy 17**, trees, flagpole, building, light and vent on buildings, and vehicle on road beginning 29' from DER, 10' right of centerline, up to 84' AGL/4820' MSL. Trees and vent on building beginning 569' from DER, 22' left of centerline, up to 35' AGL/4760' MSL. Trees, antenna, and light poles beginning 1853' from DER, 26' right of centerline, up to 121' AGL/4851' MSL. **Rwy 35**, trees and railroad beginning 410' from DER, 503' right of centerline, up to 49' AGL/4769' MSL. Tree 1034' from DER, 715' left of centerline, 42' AGL/4762' MSL.

JACKSON, WY

JACKSON HOLE

DEPARTURE PROCEDURE: **Rwy 1**, use GEYSER DEPARTURE. **Rwy 19**, use TETON DEPARTURE.

JEROME, ID

JEROME COUNTY (JER)

AMDT 2 09295 (FAA)

TAKE-OFF MINIMUMS: **Rwy 9**, 500-1¼ or std. w/ min. climb of 435' per NM to 4700.DEPARTURE PROCEDURE: **Rwy 9**, climb heading 086° to 5300 before proceeding on course. **Rwy 27**, climb heading 266° to 4800 before proceeding on course.NOTE: **Rwy 9**, bush 140' from DER, 500' left of centerline, 16' AGL/4076' MSL. Poles starting 1432' from DER, 32' left of centerline, up to 47' AGL/4169' MSL. Sign 1473' from DER, 547' left of centerline, 49' AGL/4119' MSL. Obstruction light on building 1510' from DER, 6' left of centerline, 43' AGL/4103' MSL. Trees starting 1651' from DER, 100' left of centerline, up to 53' AGL/4137' MSL. Building 2186' from DER, 173' left of centerline, 29' AGL/4119' MSL. Rising terrain starting 2549' from DER, 560' left of centerline, up to 4219' MSL. AG equip 4752' from DER, 517' left of centerline, 26' AGL/4175' MSL. Poles starting 600' from DER, 254' right of centerline, up to 48' AGL/4173' MSL. **Rwy 27**, fence starting 18' from DER, 440' left of centerline, up to 9' AGL/3969' MSL.**JOHN DAY, OR**

GRANT COUNTY RGNL/OGILVIE FIELD

(GCD)

AMDT 1 09015 (FAA)

TAKE-OFF MINIMUMS: **Rwys 9, 17, 35**, NA, Terrain.DEPARTURE PROCEDURE: **Rwy 27**, climbing left turn to 12000 heading 270° and IMB R-100 to IMB VORTAC, climb in IMB VORTAC holding pattern (E, right turns, 280° inbound) to cross IMB VORTAC at or above MEA for route of flight.NOTE: **Rwy 27**, fence beginning 195' from departure end of runway, 50' right of centerline, up to 16' AGL/3665' MSL. Trees beginning 229' from departure end of runway, 261' right of centerline, up to 26' AGL/3662' MSL. Bush 389' from departure end of runway, 438' right of centerline, 20' AGL/3659' MSL.**KALISPELL, MT**

GLACIER PARK INTL

DEPARTURE PROCEDURE: Use SKOTT

DEPARTURE.

KELSO, WA

SOUTHWEST WASHINGTON RGNL (KLS)

AMDT 3 10098 (FAA)

TAKE-OFF MINIMUMS: **Rwy 12**, NA, terrain. **Rwy 30**, std. with a min. climb of 370' per NM to 1900 or 1900-2½ for climb in visual conditions.DEPARTURE PROCEDURE: **Rwy 30**, climb heading 303° to 1900 then climbing right turn to 3900 direct LSO NDB. Continue climb in LSO NDB holding pattern (North, right turns, 175° inbound) to cross LSO NDB at or above 3900, then via BTG R-310 to BTG VORTAC. For climb in visual conditions: cross Southwest Washington Rgnl at or above 1800, then via BTG R-309 to BTG VORTAC.NOTE: **Rwy 30**, light pole 22' from DER, 301' right of centerline, 30' AGL/49' MSL. Windsock 235' from DER, 348' left of centerline, 30' AGL/49' MSL. Rotating beacon 502' from DER, 425' left of centerline, 50' AGL/70' MSL. Multiple trees beginning 213' from DER, 530' right to 747' left of centerline, up to 136' AGL/155' MSL. Pole 964' from DER, 44' right of centerline, 30' AGL/50' MSL.**KEMMERER, WY**

KEMMERER MUNI (EMM)

AMDT 1 09239 (FAA)

TAKE-OFF MINIMUMS: **Rwys 4, 10, 22, 28**, NA -Rwy surfaces.DEPARTURE PROCEDURE: **Rwy 16**, climb to 12000 via heading 166° and FBR VOR/DME R-330 to FBR VOR/DME before proceeding on course. **Rwy 34**, climb via heading 346° to 8200 then climbing right turn to 12000 via heading 125° and FBR VOR/DME R-345 to FBR VOR/DME before proceeding on course.**KLAMATH FALLS, OR**

KLAMATH FALLS

TAKE-OFF MINIMUMS: **Rwy 7**, NA. **Rwy 14**, 1100-3 or std. with a min. climb of 275' per NM to 5500. **Rwy 25**, 3300-3 or std. with a min. climb of 250' per NM to 7400. **Rwy 32**, 2000-3 or std. with a min. climb of 320' per NM to 6300.DEPARTURE PROCEDURE: **Rwys 14, 25**, climb via runway heading to 6000 then climbing right turn direct LMT VORTAC, thence... **Rwy 32**, climb via runway heading to 5500 then climbing left turn direct LMT VORTAC, thence... climb in LMT holding pattern (W, right turns, 070° inbound) to cross LMT VORTAC at or above 8000.**LA GRANDE, OR**

LA GRANDE/UNION COUNTY

TAKE-OFF MINIMUMS: **Rwy 12**, Cat A/B 2900-3 or std. with a min. climb of 350' per NM to 6100. Cat C/D 4500-3 or std. with a min. climb of 500' per NM to 7800. **Rwy 30**, Cat A/B 2900-3 or std. with a min. climb of 350' per NM to 6100. Cat C/D 3600-3 or std. with a min. climb of 450' per NM to 6800. **Rwy 34**, 2900-3 or std. with a min. climb of 350' per NM to 6100. **Rwy 16**, 2000-3 or std. with a min. climb of 500' per NM to 5000.DEPARTURE PROCEDURE: **Rwy 12, 16**, climbing left turn direct LGD NDB, thence; **Rwys 30, 34**, climbing right turn heading 010°, thence; **all aircraft** climb to 7000 via the 339° bearing from LGD NDB, then climbing right turn direct LGD NDB.

LAKEVIEW, OR

LAKE COUNTY

TAKE-OFF MINIMUMS: **Rwy 16**, 3700-5 or std. with a min. climb of 320' per NM to 8800. **Rwy 34**, 2500-5 or std. with a min. climb of 320' per NM to 8500.

DEPARTURE PROCEDURE: **Rwy 16**, climbing right turn via LKV R-163 to LKV VORTAC. **Rwy 34**, climbing left turn heading 320° to intercept LKV R-148 then via LKV R-148 to LKV VORTAC. **All aircraft** continue climbing in the LKV VORTAC holding pattern (NW, right turns, 148° inbound) to MEA for route of flight.

LARAMIE, WY

LARAMIE RGNL

DEPARTURE PROCEDURE: **Rwy 3**, turn left.

Rwys 12, 21, turn right. **All aircraft** climb direct LAR VORTAC, continue climb in holding pattern (W, left turns, 107° inbound) to cross LAR VORTAC at or above: westbound V4, 10600. All others cross LAR VORTAC at or above MEA for direction of flight.

LAUREL, MT

LAUREL MUNI

TAKE-OFF MINIMUMS: **Rwys 9, 14, 27, 32**, NA.

DEPARTURE PROCEDURE: **Rwy 22**, turn left.

All aircraft climb direct BIL VORTAC.

LEWISTON, ID

LEWISTON-NEZ PERCE COUNTY

DEPARTURE PROCEDURE: **Rwys 8, 11, 26, 29**, turn left direct MQG VOR/DME. Continue climb in holding pattern (W, left turns, 066° inbound) to cross MQG VOR/DME at or above 3600.

LEWISTOWN, MT

LEWISTOWN MUNI

TAKE-OFF MINIMUMS: **Rwy 2**, 1800-2 or std. with a min. climb of 280' per NM to 6900. **Rwy 7, 12**, 900-2 or std. with a min. climb of 220' per NM to 6200.

DEPARTURE PROCEDURE: **Rwys 2, 30** turn left.

Rwys 7, 12, 20, turn right. **Rwy 25**, climb runway heading. **All aircraft** climb direct LWT VORTAC. Continue climb in holding pattern (W, right turns, 094° inbound) to MEA for route of flight.

LEXINGTON, OR

LEXINGTON

TAKE-OFF MINIMUMS: **Rwy 26**, std. with min. climb of 280' per NM to 7600, or 1600-2 ½ for climb in visual conditions. **Rwy 8**, std. with min. climb of 490' per NM to 4200, or 1600-2 ½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 8, 26**, for climb in visual conditions: cross Lexington Airport at or above 3600.

NOTES: **Rwy 8**, trees 1.42 NM from departure end of runway, 2386' left of centerline, 100' AGL/2159' MSL. Trees 1.48 NM from departure end of runway, 2755' left of centerline, 100' AGL/2179' MSL.

LIBBY, MT

LIBBY

TAKE-OFF MINIMUMS: **Rwy 33**, not authorized.

Rwy 15, use EYESE RNAV DEPARTURE.

LIVINGSTON, MT

MISSION FIELD (LVM)

AMDT 3 09071 (FAA)

TAKE-OFF MINIMUMS: **Rwys 8, 13, 26, 31**, NA-Environmental.

DEPARTURE PROCEDURE: **Rwys 4, 22**, use LIVINGSTON DEPARTURE.

MADRAS, OR

MADRAS MUNI (S33)

ORIG-A 09043 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, std. w/a min. climb of 298' per NM to 3900 or 1100-2 ½ for climb in visual conditions. **Rwy 22**, std. w/a min. climb of 281' per NM to 3900 or 1100-2 ½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 4, 34**, climbing left turn heading 210° and DSD R-348 to DSD VORTAC to 7000 before proceeding on course. **Rwy 16**, climbing right turn heading 210° and DSD R-348 to DSD VORTAC to 7000 before proceeding on course, or... **Rwy 22**, climb heading 216° and DSD R-348 to DSD VORTAC to 7000 before proceeding on course, or... for climb in visual conditions: cross Madras Muni at or above 3400 MSL, then direct DSD VORTAC to 7000 before proceeding on course.

MC CALL, ID

MC CALL MUNI (MYL)

AMDT 2 09127 (FAA)

TAKE-OFF MINIMUMS: **Rwy 34**, NA-Obstacles.

DEPARTURE PROCEDURE: **Rwy 16**, use MCCALL DEPARTURE.

MC CHORD AFB (KTCM)

TACOMA, WA 09127

DEPARTURE PROCEDURE: **Rwy 16**, Track heading 160°, turn left to intercept SEA VORTAC R-168 (V495) to SEA 168/37.1 DME (ALDER). Cross ALDER at or above 4000. After ALDER, maintain MEA/MOCA for route of flight. **Rwy 34**, Track heading 340°, then turn right to intercept SEA VORTAC R-168 (V495) to SEA R-168/37.1 DME (ALDER). Cross ALDER at or above 4000. Maintain MEA/MOCA for route of flight.

TAKEOFF OBSTACLES: **Rwy 16**, Grove of trees 143' AGL/454' MSL, 4892' from DER, 1353' left of centerline. Grove of trees 102' AGL/419' MSL, 2395' from DER, 1028' right of centerline. Trees 136' AGL/447' MSL, 2867' from DER, 1261' left of centerline. Trees 120' AGL/430' MSL, 2594' from DER, 1113' left of centerline. Trees 85' AGL/394' MSL, 2310' from DER, 957' left of centerline. Trees 83' AGL/392' MSL, 2006' from DER, 959' left of centerline. Trees 87' AGL/389' MSL, 1758' from DER, 971' left of centerline. **Rwy 34**, Tree 106' AGL/348' MSL, 2307' from DER, 1038' left of centerline. Tree 121' AGL/370' MSL, 3190' from DER, 526' right of centerline. Aircraft 65' AGL/317' MSL, 186' from DER, 407' left of centerline. Tree 64' AGL/343' MSL, 2260' from DER, 1036' left of centerline. Building 40' AGL/321' MSL, 1668' from DER, 810' left of centerline.

MC MINNVILLE, OR

MC MINNVILLE MUNI (MMV)

AMDT 4 08325 (FAA)

TAKE-OFF MINIMUMS: **Rwy 4**, 400-1¼ or std. w/ min. climb of 238' per NM to 400, or alternatively, with standard take-off minimums and normal 200'/NM climb gradient, take-off must occur no later than 2000' prior to departure end of runway. **Rwy 17**, std. w/ min. climb of 300' per NM to 1200 or 1800-2½ for climb in visual conditions. **Rwy 22**, std. w/ min. climb of 303' per NM to 1400 or 1800-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 4**, climb heading 038° to intercept UBG R-170 to UBG VOR/DME, thence ...

Rwy 17,22, climbing left turn to intercept UBG R-183 to UBG VOR/DME, thence ... or for climb in visual conditions: cross Mc Minnville Muni at or above 1800 before proceeding on course. **Rwy 35**, climb heading 347° to intercept UBG R-221 to UBG VOR/DME, thence...

... continue climb in UBG VOR/DME holding pattern (S, left turns, 003° inbound) until reaching MEA for route of flight.

NOTE: **Rwy 4**, multiple trees beginning 2040' from departure end of runway, 353' left and 209' right of centerline, up to 100' AGL/339 feet MSL. **Rwy 17**, tree 1719' from departure end of runway, 456' right of centerline, 100' AGL/231' MSL. Tree 1760' from departure end of runway, 627' left of centerline, 100' AGL/257' MSL. **Rwy 22**, multiple trees beginning 282' from departure end of runway, 120' left and 144' right of centerline, up to 100' AGL/246' MSL. Tree 4047' from departure end of runway, 1319' left of centerline, 100' AGL/284' MSL. **Rwy 35**, multiple trees beginning 1551' from departure end of runway, 229' right of centerline, up to 100' AGL/277' MSL.

MEDFORD, OR

ROGUE VALLEY INTL-MEDFORD (MFR)

AMDT 9 09015 (FAA)

TAKE-OFF MINIMUMS: **Rwys 9,27**, NA-Obstacles.

Rwy 14, std. w/ min. climb of 430' per NM to 4600, or 2900-3 for climb in visual conditions. **Rwy 32**, std. with a min. climb of 260' per NM to 6800, or 2900-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 14**, climbing right turn direct OED VORTAC, or for climb in visual conditions, cross Rogue Valley Intl airport at or above 4100 before proceeding direct OED VORTAC...

Rwy 32, climbing right turn direct OED VORTAC, or for climb in visual conditions, cross Rogue Valley Intl airport at or above 4100 before proceeding direct OED VORTAC...

...all aircraft climb in OED VORTAC holding pattern (hold NW, right turns, 153° inbound) to cross OED VORTAC at or above 6400.

MISSOULA, MT

MISSOULA INTL (MSO)

AMDT 8 08213 (FAA)

TAKE-OFF MINIMUMS: **Rwys 7,25**, NA-Obstacles.

DEPARTURE PROCEDURE: **Rwys 11, 29**, use GRZLY DEPARTURE.

MOSES LAKE, WA

GRANT COUNTY INTL

NOTE: **Rwy 14R**, antenna 3902' from departure end of runway, 828' right of centerline, 98' AGL/1268' MSL.

Rwy 18, pole 405' from departure end of runway, 334' right of centerline, 30' AGL/1209' MSL. Windsock 496' from departure end of runway, 371' left of centerline, 16' AGL/1195' MSL. **Rwy 32L**, pole 1326' from departure end of runway, 373' left of centerline, 22' AGL/1202' MSL.

MOUNTAIN HOME AFB (KMUO)

MOUNTAIN HOME, ID 07270

Rwy 12,30, 6700-3*

* Or standard with minimum climb of 270'/NM to 9100.

TAKE-OFF OBSTACLES: **Rwy 12**, Terrain 0' AGL/3028' MSL, 1224' from DER, 744' right of centerline. Terrain 0' AGL/3035' MSL, 824' from DER, 721' right of centerline. Terrain 0' AGL/3035' MSL, 507' from DER, 636' right of centerline. Terrain 0' AGL/3022' MSL, 49' from DER, 202' right of centerline. Terrain 0' AGL/3018' MSL, 148' from DER, 328' left of centerline. Terrain 0' AGL/3016' MSL, 300' from DER, 580' left of centerline. Road/Vehicle 15' AGL/3044' MSL, 1147' from DER, 794' right of centerline. Power pole 35' AGL/3069' MSL, 2914' from DER, 940' right of centerline. Tower 30' AGL/3032' MSL, 1067' from DER, 902' right of centerline. Tower 28' AGL/3039' MSL, 1172' from DER, 796' right of centerline. Tower 45' AGL/3054' MSL, 2152' from DER, 1478' left of centerline. **Rwy 30**, Terrain 0' AGL/2995' MSL, 40' from DER, 492' left of centerline. Terrain 0' AGL/2999' MSL, 370' from DER, 467' right of centerline. Terrain 0' AGL/3006' MSL, 507' from DER, 636' right of centerline. Terrain 0' AGL/3007' MSL, 570' from DER, 653' right of centerline. Road/Vehicle 35' AGL/3019' MSL, 954' from DER, 773' left of centerline.

MOUNTAIN HOME, ID

MOUNTAIN HOME MUNI

TAKE-OFF MINIMUMS: **Rwy 10**, 3500-2 or std. with a min. climb of 305' per NM to 7300. **Rwy 28**, 3500-2 or std. with a min. climb of 290' per NM to 7300.

DEPARTURE PROCEDURE: **Rwy 10**, climbing left turn direct STI NDB. **Rwy 28**, climbing right turn direct STI NDB. All aircraft departing STI NDB bearing 080° CW 340° climb on course. All others continue climb in hold (E, left turns, 271° inbound) to cross STI NDB at or above 7300.

NAMPA, ID

NAMPA MUNI

DEPARTURE PROCEDURE: **Rwy 11**, climbing right turn direct MPA NDB, continue climb in MPA holding pattern (NW, right turns, 145° inbound). Depart MPA NDB at or above 5500 before proceeding on course.

Rwy 29, climb runway heading to 3700 then climbing right turn direct MPA NDB, continue climb in MPA holding pattern (NW, right turns, 145° inbound). Depart MPA NDB at or above 5500 before proceeding on course.

NOTE: **Rwy 11**, 70' AGL tree, 1225' from departure end of runway, 90' right of centerline.

NEWCASTLE, WY

MONDELL FIELD (ECS)

AMDT 3A 09267 (FAA)

TAKE-OFF MINIMUMS: **Rwy 5,17,23,35, NA. Rwy 13**, 200-1 or std. with a min. climb of 275' per NM to 4400'.
Rwy 31, 300-1 or std. with a min. climb of 300' per NM to 4600.

DEPARTURE PROCEDURE: **Rwy 31**, climbing left turn. **All aircraft** climb to 5500 via ECS R-143, then climbing right turn direct ECS VOR, continue climb on course.

NOTE: **Rwy 13**, fence posts, beginning 299' from DER, 218' left of centerline, up to 10' AGL/4190' MSL. Light on antenna 1951' from DER, 879' left of centerline, 84' AGL/4244' MSL. **Rwy 31**, multiple poles, beginning 74' from DER, 237' right of centerline, up to 20' AGL/4200' MSL. Bush 5787' from DER, 1441' right of centerline, 13' MSL/4363' MSL. Railroad 735' from DER, 314' right of centerline 30' AGL/4202' MSL. Road 207' from DER, 254' right of centerline, 15' AGL/4187' MSL.

NEWPORT, OR

NEWPORT MUNI

TAKE-OFF MINIMUMS: **Rwy 2, NA. Rwy 16**, 500-2 or std. with a min. climb of 310' per NM to 800.

DEPARTURE PROCEDURE: **Rwy 2, NA. Rwy 16**, turn right. **Rwy 34**, turn left. Aircraft departing via ONP R-180 CW R-320 depart on course. All others continue climbing via ONP R-200 to 1500 then climbing left turn direct ONP VORTAC. Cross ONP VORTAC at or above 2200.

NORTH BEND, OR

SOUTHWEST OREGON RGNL (OTH)

AMDT 4B 09071 (FAA)

TAKE-OFF MINIMUMS: **Rwy 4**, 800-2 or std. with a min. climb of 340' per NM to 900. **Rwy 13**, 800-2. **Rwys 16,34**, NA-Rwy closed. **Rwy 31**, 300-2 or std. with a min. climb of 240' per NM to 400.

DEPARTURE PROCEDURE: **Rwys 4,31**, turn left. **Rwys 13,22**, turn right. **All aircraft** climb via OTH VORTAC R-250 to 1300 then climbing right turn direct OTH VORTAC.

NOTE: **Rwy 13**, spire 3468' from departure end of runway, 1128' left of centerline, 55' AGL/243' MSL, multiple trees beginning 3068' from departure end of runway, 78' left of centerline, up to 132' AGL/291' MSL.

OAK HARBOR, WA

A J EISENBERG (OKH)

ORIG-A 09071 (FAA)

TAKE-OFF MINIMUMS: **Rwy 7**, 300-1. **Rwy 25**, 300-1 DEPARTURE PROCEDURE: **Rwy 7**, climb via heading 071° to 2000, then climbing right turn direct CVV VOR/DME. Continue climb on course. **Rwy 25**, climb via heading 251° to 2100, then climbing left turn direct CVV VOR/DME. Continue climb on course.

NOTE: **Rwy 7**, multiple trees beginning 1167' from DER, 212' left of centerline, up to 80' AGL/319' MSL. Multiple trees beginning 664' from DER, 208' right of centerline, up to 80' AGL/299' MSL. Fence 612' from DER, right and left of centerline, 10' AGL/229' MSL. Multiple bushes beginning 240' from DER, 64' left of centerline, up to 8' AGL/227' MSL. **Rwy 25**, cars on road 87' from DER, left and right of centerline, up to 15' AGL/174' MSL. Multiple trees beginning 2271' from DER, right and left of centerline, up to 80' AGL/279' MSL.

OLYMPIA, WA

OLYMPIA RGNL (OLM)

AMDT 5A 09127 (FAA)

TAKE-OFF MINIMUMS: **Rwy 17**, 300-2 or std. with a min. climb of 706' per NM to 600, or 2200-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 8**, climb heading 085° to 1000 then climbing left turn direct OLM VORTAC, thence... **Rwy 17**, climb heading 172° to 1200 then climbing right turn direct OLM VORTAC, thence... or climb in visual conditions to cross OLM VORTAC at or above 2300, thence... **Rwys 5,26,35**, climbing right turn direct OLM VORTAC, thence...

...continue climb in OLM VORTAC holding pattern (south, right turn, 356° inbound) to cross OLM VORTAC at or above MEA/MCA for route of flight.

NOTE: **Rwy 8**, multiple trees beginning 880' from DER, 214' left of centerline, up to 100' AGL/343' MSL. Multiple trees beginning 1636' from DER, 131' right of centerline, up to 100' AGL/320' MSL. **Rwy 17**, multiple trees beginning 1008' from DER, 24' left of centerline, up to 100' AGL/490' MSL. Multiple trees beginning 752' from DER, 3' right of centerline, up to 100' AGL/370' MSL. **Rwy 26**, multiple trees and WSK on building beginning 475' from DER, 595' left of centerline, up to 100' AGL/330' MSL. Multiple trees beginning 338' from DER, 339' right of centerline, up to 100' AGL/309' MSL. **Rwy 35**, multiple trees beginning 2176' from DER, 198' left of centerline, up to 100' AGL/313' MSL. Multiple trees and field light on hangar beginning 657' from DER, 621' right of centerline, up to 100' AGL/315' MSL.

OMAK, WA

OMAK

TAKE-OFF MINIMUMS: **Rwy 17**, 2200-2 or std. with a min. climb of 300' per NM to 4200. **Rwy 35**, NA.

DEPARTURE PROCEDURE: **Rwy 17**, use GETNG RNAV DEPARTURE. **Rwy 35**, NA.

ONTARIO, OR

ONTARIO MUNI (ONO)

AMDT 3 08325 (FAA)

DEPARTURE PROCEDURE: **Rwy 32**, climb to 9600 on a heading between 010° CW to 141° from departure end of runway or minimum climb of 280' per NM to 9600 for all other courses.

NOTE: **Rwy 14**, multiple trees, poles, and buildings beginning 90' from departure end of runway, 157' right of centerline up to 120' AGL/2314' MSL. Multiple trees, poles, and buildings beginning 502' from departure end of runway, 506' left of centerline up to 120' AGL/2314' MSL. **Rwy 32**, multiple trees, poles, and buildings beginning 340' from departure end of runway, 405' left of centerline up to 100' AGL/2458' MSL. Multiple trees, poles, and buildings beginning 2' from departure end of runway, 472' right of centerline up to 100' AGL/2431' MSL.

PASCO, WA

TRI-CITIES

DEPARTURE PROCEDURE: **All runways**, climb runway heading to 1000, thence... **Rwy 12**, turn left. All others turn right. **All aircraft** climb direct PSC VOR/DME before proceeding on course.

PENDLETON, OR

EASTERN OREGON RGNL AT PENDLETON (PDT)

AMDT 3 09183 (FAA)

DEPARTURE PROCEDURE: **Rwys 7, 29, 34**, climbing left turn direct PDT VORTAC, thence...

Rwys 11, 16, climbing right turn direct PDT VORTAC, thence...

Rwy 25, climb direct PDT VORTAC, thence...

...continue climb in PDT VORTAC holding pattern (West, left turn, 073° inbound) to cross PDT VORTAC at or above MEA before proceeding on course.

NOTE: **Rwy 16**, multiple trees beginning 232' from DER, 348' right of centerline, up to 100' AGL/1579' MSL.

Rwy 25, multiple antennas and terrain beginning 203' from DER, 259' left of centerline, up to 13' AGL/1512' MSL. **Rwy 29**, terrain 189' from DER, 247' left of centerline, 1493' MSL.

PINEDALE, WY

PINEDALE/RALPH WENZ FIELD (PNA)

AMDT 2 09295 (FAA)

TAKE-OFF MINIMUMS: **Rwy 29**, std. with a min. climb of 310' per NM to 8300, or 4900-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 11**, climbing right turn to 10000 via heading 190° and BPI R-040 to BPI VOR/DME before proceeding on course. **Rwy 29**, climbing left turn to 10000 via heading 230° and BPI R-020 to BPI VOR/DME before proceeding on course or for climb in visual conditions: cross Pinedale/Ralph Wenz Field at or above 11800 before proceeding on course.

PLENTYWOOD, MT

SHER-WOOD

NOTE: **Rwy 12**, multiple bushes beginning 47' from departure end of runway, 71' left of centerline, up to 12' AGL/2251' MSL. Multiple bushes beginning 362' from departure end of runway, 514' right of centerline, up to 12' AGL/2251' MSL. **Rwy 30**, multiple bushes and road beginning 68' from departure end of runway, 75' right of centerline, up to 12' AGL/2303' MSL. Multiple bushes beginning 217' from departure end of runway, 60' left of centerline, up to 12' AGL/2296' MSL.

POCATELLO, ID

POCATELLO RGNL (PIH)

AMDT 7 09351 (FAA)

DEPARTURE PROCEDURE: use KNURL ONE DEPARTURE.

POLSON, MT

POLSON

TAKE-OFF MINIMUMS: **Rwy 18**, N/A-extremely precipitous terrain. **Rwy 36**, standard with a min. climb of 270' per NM to 8400'.

DEPARTURE PROCEDURE: **Rwy 36**, Use ANGIL RNAV DEPARTURE.

NOTES: **Rwy 36**, Road 509' from departure end of runway, 2955' MSL. Trees 2.39 NM from departure end of runway, 3383' left of centerline, 100' AGL/3179 MSL.

Rapidly rising precipitous terrain left and right of centerline running along southern Flathead River ridges.

PORT ANGELES, WA

PORT ANGELES CGAS

DEPARTURE PROCEDURE: Copter departure, climb from landing area direct to EDIZ HOOK NDB.

Continue climb in holding pattern (NE, right turns, 237° inbound) to MEA for direction of flight.

WILLIAM R FAIRCHILD INTL

DEPARTURE PROCEDURE: **Rwys 8, 13, 26, 31**, use WATTFIVE DEPARTURE.

PORTLAND, OR

PORTLAND INTL (PDX)

AMDT 6 09015 (FAA)

TAKE-OFF MINIMUMS: **Rwy 3**, 500-3 or std. w/ min. climb of 400' per NM to 600. **Rwy 10L/R**, std. w/ min. climb of 270' per NM to 2900. **Rwy 21**, std. w/ min. of 310' per NM to 1800.

DEPARTURE PROCEDURE: **Rwy 3**, climb heading 025° to 700, then climbing left turn direct BTG VORTAC, thence... **Rwys 10L, 10R**, climb heading 099° to 500, then climbing left turn direct BTG VORTAC, thence... **Rwy 21**, climb heading 205.03 to 500, then climbing right turn direct BTG VORTAC, thence... **Rwys 28L, 28R**, climb heading 279° to 500, then climbing right turn direct BTG VORTAC, thence... continue climb in BTG VORTAC holding pattern (hold NW, right turns, 149° inbound) to cross BTG VORTAC at or above MCA/MEA before proceeding on course.

NOTE: **Rwy 3**, signs, tower, trees, and vehicle on road beginning 468' from departure end of runway, 28' left of centerline, up to 100' AGL/449' MSL. Poles, trees, and vehicle on road beginning 609' from departure end of runway, 7' left of centerline, up to 100' AGL/416' MSL. **Rwy 10L**, rising terrain and vehicle on road beginning 7' from departure end of runway, 376' left of centerline, up to 17' AGL/60' MSL. **Rwy 10R**, pole 1996' from departure end of runway, 758' right of centerline, 54' AGL/74' MSL. note: **Rwy 21**, trees beginning 1319' from departure end of runway, 155' right of centerline, up to 100' AGL/318' MSL. Poles and trees beginning 353' from departure end of runway, 36' left of centerline, up to 100' AGL/317' MSL. **Rwy 28L**, trees 1873' from departure end of runway, 836' left of centerline, 50' AGL/88' MSL.

Rwy 28R, multiple signs, poles, and vehicle on road beginning 876' from departure end of runway, 654' right of centerline, up to 27' AGL/69' MSL.

PORTLAND, OR (CON'T)

PORTLAND-HILLSBORO

TAKE-OFF MINIMUMS: **Rwy 30**, 200-1¼ or std. with a min. climb of 223' per NM to 500. Alternatively, with standard take-off minimums and a normal 200'/NM climb gradient, take-off must occur no later than 1600' prior to departure end of runway.

DEPARTURE PROCEDURE: **Rwy 12**, climbing right turn direct UBG VOR/DME... **Rwys 2, 20, 30**, climbing left turn direct UBG VOR/DME...

...all aircraft climb in UBG VOR/DME holding pattern (west, right turn, 108° inbound) to cross UBG VOR/DME at or above MEA/MCA for direction of flight before proceeding on course.

NOTE: **Rwy 2**, multiple roads beginning 246' from departure end of runway, 3' right of centerline, up to 15' AGL/220' MSL. **Rwy 12**, multiple trees beginning 1842' from departure end of runway, 222' left of centerline, up to 125' AGL/324' MSL. Multiple trees beginning 3629' from departure end of runway, 46' right of centerline, up to 143' AGL/332' MSL. **Rwy 20**, multiple trees and pole beginning 967' from departure end of runway, 118' left of centerline, up to 93' AGL/292' MSL. Vent of hangar 63' from departure end of runway, 428' left of centerline, 26' AGL/225' MSL. Multiple trees and antenna on building beginning 965' from departure end of runway, 449' right of centerline, up to 74' AGL/273' MSL. **Rwy 30**, multiple trees beginning 1664' from departure end of runway, 623' right of centerline, up to 194' AGL/363' MSL. Pole 702' from departure end of runway, 603' left of centerline, 26' AGL/215' MSL.

PORTLAND-TROUTDALE

TAKE-OFF MINIMUMS: **Rwy 7**, 3600-2 or std. with a min. climb of 380' per NM to 4100. **Rwy 25**, 900-2 or std. with a min. climb of 360' per NM to 1000.

DEPARTURE PROCEDURE: **Rwy 7**, turn left.

Rwy 25, turn right. All aircraft climb via BTGR-125 direct BTG VORTAC. Continue climb on BTG R-329 within 10 NM to cross BTG VORTAC at or above: BTG R-355 CW R-055 or R-085 CW R-115 5000; all others 2500.

POWELL, WY

POWELL MUNI

TAKE-OFF MINIMUMS: **Rwy 3, 16, 21, 34**, NA.

DEPARTURE PROCEDURE: **Rwy 13**, turn right.

Rwy 31, turn left. All aircraft climb direct COD VOR/DME. Aircraft departing COD R-350 CW R-170 climb on course. All others continue climb in COD VOR/DME holding pattern (N, left turns, 189° inbound) to cross COD VOR/DME at or above 8800

PRINEVILLE, OR

PRINEVILLE (S39)

AMDT 1 08213 (FAA)

TAKE-OFF MINIMUMS: **Rwy 10**, std. w/min. climb of 350 feet per NM to 6500, or 2400-3 for climb in visual conditions. **Rwy 15**, std. w/min. climb of 470' per NM to 6200, or 2400-3 for climb in visual conditions. **Rwy 28**, std. w/min. climb of 450' per NM to 6700, or 2400-3 for climb in visual conditions. **Rwy 33**, std. w/min. climb of 380' per NM to 6700, or 2400-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 10**, climb heading 102° to 6500 before proceeding on course or for climb in visual conditions cross Prineville Muni airport at or above 5600 before proceeding on course. **Rwy 15**, climb heading 154° to 6200 before proceeding on course or for climb in visual conditions cross Prineville Muni airport at or above 5600 before proceeding on course. **Rwy 28**, climb heading 282° to 6700 before proceeding on course or for climb in visual conditions cross Prineville Muni airport at or above 5600 before proceeding on course. **Rwy 33**, climb heading 334° to 6700 before proceeding on course or for climb in visual conditions cross Prineville Muni airport at or above 5600 before proceeding on course.

NOTE: **Rwy 10**, trees beginning 2693' from departure end of runway, 545' right of centerline, up to 100' AGL/3339' MSL. **Rwy 15**, trees beginning 1129' from departure end of runway, 697' right of centerline, up to 100' AGL/3319' MSL. **Rwy 28**, trees beginning 1803' from departure end of runway, 74' right of centerline, up to 100' AGL/3319' MSL. **Rwy 33**, trees beginning 2636' from departure end of runway, 379' right of centerline, up to 100' AGL/3319' MSL.

PULLMAN-MOSCOW, WA

PULLMAN-MOSCOW RGNL

TAKE-OFF MINIMUMS: **Rwy 5**, 300-1¼ with a min. climb of 278' per NM to 4400, or 4600-3 for climb in visual conditions. **Rwy 23**, 300-1 or std. with a min. climb of 361' per NM to 4700.

DEPARTURE PROCEDURE: **Rwy 5**, climbing left turn direct PUW VOR/DME, cross PUW VOR/DME at or above 4700, continue climb in PUW VOR/DME holding pattern (SW, left turn, 032° inbound) to cross PUW VOR/DME at or above MEA for direction of flight, or for climb in visual conditions; cross Pullman-Moscow Rgnl at or above 4500. **Rwy 23**, climbing left turn via PUW VOR/DME R-021, cross PUW VOR/DME at or above 4700, continue climb in PUW VOR/DME holding pattern (SW, left turn, 032° inbound) to cross PUW VOR/DME at or above MEA for direction of flight.

NOTE: **Rwy 5**, multiple trees and terrain left and right of centerline, beginning 614' from departure end of runway, 424' right of centerline up to 50' AGL/2677' MSL. Terrain 3503' from departure end of runway, 770' left of centerline, 50' AGL/2608' MSL. **Rwy 23**, multiple trees, terrain, fences, poles, and tanks beginning 669' from departure end of runway, 412' right of centerline, up to 52' AGL/2769' MSL.

PUYALLUP, WA

PIERCE COUNTY-THUN FIELD (PLU)
AMDT 1A 09071 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16, 34**, 300-1.

DEPARTURE PROCEDURE: **Rwy 16**, climbing right turn. **Rwy 34**, climb runway heading. **All aircraft** climb via SEAR-158 to COTNY INT/SEA 18.1 DME. Continue in COTNY holding pattern (Hold S, left turns, 338° inbound) to depart COTNY at or above: 001° CW 090° 3500, 090° 3500, 091° CW 120° 10,400, 121° CW 170° 2700, 171° CW 360° 1500.

NOTE: **Rwy 16**, light pole 511' from DER, 567' right of centerline, 40' AGL/552' MSL. Multiple poles on building beginning 187' from DER, 416' left of centerline, up to 575' MSL. Multiple trees beginning 363' from DER, 656' left of centerline to 540' right of centerline, up to 662' MSL. Vehicles on road beginning 1149' from DER, 512' right of centerline, up to 15' AGL/582' MSL. Terrain beginning 1293' from DER, 529' left of centerline to 352' right of centerline, up to 581' MSL. Pipe 1520' from DER, 303' left of centerline, 574' MSL. **Rwy 34**, multiple trees beginning 58' from DER, 591' left of centerline to 1029' right of centerline, up to 694' MSL. Flagpole 1155' from DER, 464' left of centerline, 578' MSL. Building 564' from DER, 410' left of centerline, 555' MSL.

RAWLINS, WY

RAWLINS MUNI/HARVEY FIELD

TAKE-OFF MINIMUMS: **Rwy 4**, 600-2 or std. with a min. climb of 440' per NM to 7500. **Rwy 22**, 1500-2 or std. with a min climb of 365' per NM to 8700. **Rwys 10, 28**, NA.

DEPARTURE PROCEDURE: **Rwy 4**, turn right.

Rwy 22, turn left. Climb to 10000 via RWL R-200 and CKW R-080 to CKW VOR/DME then via assigned route. Aircraft departing eastbound V4 or V6 climb via RWL R-200 to assigned route then climb on course.

REDMOND, OR

ROBERTS FIELD (RDM)
AMDT 5 09183 (FAA)

TAKE-OFF MINIMUMS: **Rwy 22**, std. w/ min. climb of 269' per NM to 4700. **Rwy 28**, std. w/ min. climb of 276' per NM to 4800.

DEPARTURE PROCEDURE: **Rwy 4**, climbing left turn via heading 265° and DSD R-047 to DSD VORTAC, climb in DSD VORTAC holding pattern (hold North, right turn, 168° inbound) to cross DSD VORTAC at or above MEA for route of flight before proceeding on course. **Rwy 10**, climbing right turn via heading 240° and DSD R-090 to DSD VORTAC, climb in DSD VORTAC holding pattern (hold North, right turn, 168° inbound) to cross DSD VORTAC at or above MEA for route of flight before proceeding on course. **Rwy 22**, climb heading 222° and DSD R-090 to DSD VORTAC, climb in DSD VORTAC holding pattern (hold North, right turn, 168° inbound) to cross DSD VORTAC at or above MEA for route of flight before proceeding on course. **Rwy 28**, climbing left turn via heading 275° and DSD R-045 to DSD VORTAC, climb in DSD VORTAC holding pattern (hold North, right turn, 168° inbound) to cross DSD VORTAC at or above MEA for route of flight before proceeding on course.

NOTE: **Rwy 28**, numerous trees beginning 1' from DER, 356' right of centerline, 12' AGL/3079' MSL. Tree 364' from DER, 448' left of centerline, 15' AGL/3054' MSL.

RENTON, WA

RENTON MUNI (RNT)
AMDT 7 09351 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, std. with a min. climb of 405' per NM to 800, or 1100-2½ for climb in visual conditions. **Rwy 34**, 500-2¼ or std. with a min. climb of 315' per NM to 700.

DEPARTURE PROCEDURE: **Rwy 16**, climb heading 157° to 700, then climbing right turn direct SEA VORTAC, thence..., or for climb in visual conditions: cross Renton Muni Airport westbound at or above 1000 MSL, then proceed on SEAR R-029 to SEA VORTAC, thence... **Rwy 34**, Climb heading 337° to 700, then climbing left turn direct SEA VORTAC thenceClimb in SEA VORTAC holding pattern (East, left turns, 290° inbound) to cross SEA VORTAC at or above MEA/MCA for direction of flight.

NOTES: **Rwy 16**, trees, towers, lights and blast shield beginning 185' from DER, 4' left of centerline, up to 100' AGL/574' MSL. Trees, lights and sign beginning 40' from DER, 54' right of centerline, up to 100' AGL/297' MSL. **Rwy 34**, Trees and terrain beginning 1.6 NM from DER, 104' left of centerline, up to 100' AGL/485' MSL. Trees, terrain and wood piling beginning 75' from DER, 7' right of centerline, up to 100' AGL/426' MSL.

REXBURG, ID

REXBURG-MADISON COUNTY

DEPARTURE PROCEDURE: **Rwy 17**, climbing right turn. **Rwy 35**, climbing left turn. **All aircraft** climb via IDA VOR/DME R-015 to RIGBY Int to MEA for route of flight before proceeding on course.

NOTE: **Rwy 17**, 100' AGL trees 125' from departure end of runway, 350' left of centerline. **Rwy 35**, 100' AGL trees 350' from departure end of runway, 450' right of centerline. 100' AGL trees 750' from departure end of runway, 500' left of centerline.

RICHLAND, WA

RICHLAND

TAKE-OFF MINIMUMS: **Rwy 1**, 200-1 or std. w/min. climb of 310' per NM to 700. **Rwy 19**, std. w/min. climb of 480' per NM to 2300, or 1800-2½ for climb in visual conditions. **Rwy 26**, 500-2½ or std. w/min. climb of 309' per NM to 1000.

DEPARTURE PROCEDURE: **Rwy 1**, climbing right turn via heading 070° and PSC R-301 to PSC VOR/DME, thence...**Rwy 8**, climbing right turn direct PSC VOR/DME, thence...**Rwy 19**, climbing right turn via heading 040° and PSC R-269 to PSC VOR/DME, or for climb in visual conditions: cross Richland Airport at or above 2000 then proceed on PSC R-269, to PSC VOR/DME thence...**Rwy 26**, climbing right turn via heading 070° and PSC R-287 to PSC VOR/DME, thence...

...climb in PSC VOR/DME holding pattern (hold East, right turn, 291° inbound) to cross PSC VOR/DME at or above MEA for route of flight before proceeding on course.

NOTE: **Rwy 1**, crane and multiple poles 752' from departure end of runway, 477' right of centerline, up to 110' AGL/520' MSL. Trees 43' from departure end of runway, 414' left of centerline, 100' AGL/407' MSL. **Rwy 8**, multiple trees and railroad beginning 400' from departure end of runway, 252' right of centerline, up to 100' AGL/469' MSL. Multiple trees and railroad beginning 204' from departure end of runway, 241' left of centerline, up to 100' AGL/469' MSL. **Rwy 19**, multiple trees 64' from departure end of runway, 169' right of centerline, up to 100' AGL/679' MSL. Multiple trees, terrain, and buildings 22' from departure end of runway, 30' left of centerline, up to 100' AGL/479' MSL. **Rwy 26**, multiple trees, fence, and terrain beginning 458' from departure end of runway, 230' left of centerline, up to 100' AGL/839' MSL. Multiple posts, antenna, and terrain beginning 164' from departure end of runway, 255' right of centerline, up to 18' AGL/417' MSL.

RIVERTON, WY

RIVERTON RGNL (RIW)

AMDT 1 10042 (FAA)

DEPARTURE PROCEDURE: **Rwys 1, 10, 19, 28**, climbing right turn direct RIW VOR/DME. **All Aircraft** climb in RIW holding pattern (hold East, right turns, 287° inbound) to MEA for direction of flight.

NOTES: **Rwy 1**, sage brush beginning 35' from DER, left and right of centerline, up to 3' AGL/5499' MSL. **Rwy 10**, sage brush beginning 20' from DER, left and right of centerline, up to 3' AGL/5466' MSL. **Rwy 19**, sage brush beginning 49' from DER, 171' right of centerline, up to 3' AGL/5479' MSL. Windstocks beginning 154' from DER, 268' right of centerline, up to 28' AGL/5468' MSL. **Rwy 28**, sage brush, tower, and pole beginning 54' from DER, 154' right of centerline, up to 59' AGL/5679' MSL. Sage brush, fence, and poles beginning 132' from DER, 27' left of centerline, up to 67' AGL/5647' MSL.

ROCK SPRINGS, WY

ROCK SPRINGS-SWEETWATER COUNTY (RKS)

AMDT 6 10098 (FAA)

DEPARTURE PROCEDURE: **Rwy 3**, climb heading 032° to 8000 then climbing left turn direct OCS VOR/DME, continue climb in OCS VOR/DME holding pattern (hold East, right turns, 260° inbound) to cross OCS VOR/DME at or above MEA for route of flight. **Rwy 9**, climb heading 090° to 8200 then climbing left turn direct OCS VOR/DME, continue climb in OCS VOR/DME holding pattern (hold East, right turns, 260° inbound) to cross OCS VOR/DME at or above MEA for route of flight. **Rwy 21**, climb heading 212° to 8400, then climbing right turn direct OCS VOR/DME, continue climb in OCS VOR/DME holding pattern (hold East, right turns, 260° inbound) to cross OCS VOR/DME at or above MEA for route of flight. **Rwy 27**, climb heading 270° to 7900, then climbing right turn via OCS R-291 to OCS VOR/DME, continue climb in OCS VOR/DME holding pattern (hold East, right turns, 260° inbound) to cross OCS VOR/DME at or above MEA for route of flight.

NOTE: **Rwy 3**, vehicle on road beginning 22' from DER, 120' left of centerline, up to 20' AGL/6760' MSL, bushes beginning 178' from DER, 517' right of centerline, up to 15' AGL/6755' MSL. **Rwy 21**, bush 53' from DER, 221' left of centerline, 15' AGL/6737' MSL.

RONAN, MT

RONAN (7S0)

ORIG 09295 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, std. w/min. climb of 260' per NM to 9900 or 6100-3 for climb in visual conditions. **Rwy 34**, std. w/min. climb of 250' per NM to 9900 or 6100-3 in visual conditions.

DEPARTURE PROCEDURE: **Rwy 16**, climb to 8800 on a heading between 177° CW to 336° from DER or for climb in visual conditions, cross Ronan airport at or above 9000 before proceeding on course. **Rwy 34**, climb to 8800 on a heading between 336° CCW to 177° from DER or for climb in visual conditions, cross Ronan airport at or above 9000 before proceeding on course.

NOTE: **Rwy 16**, tree 485' from DER, 386' left of centerline 50' AGL/3149' MSL. **Rwy 34**, building 158' from DER, 370' left of centerline 40' AGL/3130' MSL. Tree 1358' from DER, 556' left of centerline 50' AGL/3149' MSL.

ROSEBURG, OR

ROSEBURG RGNL (RBG)

AMDT 5A 08297 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, std. with a min. climb of 642' per NM to 2000, or 1700-3 for climb in visual conditions. **Rwy 34**, std. with a min. climb of 760' per NM to 2000, or 1700-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 16**, climb direct RBG VOR/DME, or climb in visual conditions to cross Roseburg Airport southbound at or above 2200, then direct RBG VOR/DME. Then via RBG R-157 and right turn direct RBG VOR/DME to cross at or above the MCA or MEA for route of flight. **Rwy 34**, climb via heading 342° to 4000, or climb in visual conditions to cross Roseburg Airport northbound at or above 2200 and then via heading 342° to 4000. Then climbing left turn direct RBG VOR/DME, to cross RBG VOR/DME at or above MCA or MEA for route of flight. Aircraft that have not reached the MCA or MEA for route of flight continue climb via RBG R-157 and right turn direct RBG VOR/DME.

NOTE: **Rwy 16**, tower 1.56 NM from departure end of runway, 2231' right of centerline, 50' AGL/1201' MSL, tree 1.47 NM from departure end of runway, 1560' right of centerline, 21' AGL/980' MSL, tree 1.46 NM from departure end of runway, 1298' right of runway centerline, 45' AGL/964' MSL, pole 1.36 NM from departure end of runway, 921' right of centerline, 75' AGL/914' MSL, rod on airway beacon 1.29 NM from departure end of runway, 409' right of centerline, 52' AGL/891' MSL, tree 655' from departure end of runway, 347' right of runway centerline, 93' AGL/593' MSL, obstruction light on pole 691' from departure end of runway, 187' right of runway centerline, 117' AGL/557' MSL. **Rwy 34**, tree 1.10 NM from departure end of runway, 2003' left of runway centerline, 60' AGL/1179' MSL. Tree 5165' from departure end of runway, 1744' left of centerline, 64' AGL/1023' MSL. Obstruction light on pole 4850' from departure end of runway, 56' left of centerline, 15' AGL/894' MSL. Tree 4785' from departure end of runway, 48' left of runway centerline, 23' AGL/862' MSL. Tree 1.41 NM from departure end of runway, 1826' left of runway centerline, 17' AGL/896' MSL. Tree 4079' from departure end of runway, 508' left of runway centerline, 21' AGL/780' MSL. Tree 5067' from departure end of runway, 265' right of centerline, 43' AGL/802' MSL. Tree 4260' from departure end of runway, 345' right of centerline, 42' AGL/761' MSL. Tree 1465' from departure end of runway 329' right of runway centerline, 100' AGL/642' MSL. Tree 913' from departure end of runway, 217' right of runway centerline, 100' AGL/622' MSL. Tree 647' from departure end of runway, 345' right of runway centerline, 100' AGL/615' MSL. Hill 1065' from departure end of runway, 299' right of runway centerline 608' MSL. Trees beginning 60' from departure end of runway, 117' left of runway centerline, up to 16' AGL/554' MSL. Trees beginning 242' from departure end of runway, 209' right of runway centerline, up to 56' AGL/584' MSL. Vehicle on road 265' from departure end of runway, 229' right of runway centerline, 15' AGL/560' MSL. Multiple signs beginning 792' from departure end of runway, 550' left of runway centerline, up to 60' AGL/565' MSL. Bush 94' from departure end of runway, 228' right of runway centerline, 19' AGL/547' MSL. Bush 202' from departure end of runway, 92' left of centerline, 7' AGL/535' MSL. Pole 640' from departure end of runway, 354' left of runway centerline, 29' AGL/557' MSL.

SALEM, OR

MCNARY FIELD

TAKE-OFF MINIMUMS: **Rwy 13**, 600-2 or std. with a min. climb of 240' per NM to 800. **Rwy 16**, 600-2 or std. with a min. climb of 340' per NM to 800.

DEPARTURE PROCEDURE: Comply with SIDs or; **Rwys 31, 34**, turn right. **Rwy 16**, turn left. **Rwy 13**, climb heading 130°. **All aircraft** climb direct TURN O LOM/Int. Continue climb in holding (SE, left turns, 310° inbound) to cross TURN O LOM/INT at or above MEA for route of flight.

SALMON, ID

LEMHI COUNTY

TAKE-OFF MINIMUMS: **Rwy 17**, NA. **Rwy 35**, 4300-5 or std. with a min. climb of 390' per NM to 8000.

DEPARTURE PROCEDURE: **Rwy 17**, NA. **Rwy 35**, climb runway heading to 8000, then climbing left turn to 11,300 direct LKT VOR/DME before proceeding on course.

SANDPOINT, ID

SANDPOINT

TAKE-OFF MINIMUMS: **Rwy 1**, 4200-2 or std. with a min. climb of 520' per NM to 5800. **Rwy 19**, 2200-2 or std. with a min. climb of 480' per NM to 4600.

DEPARTURE PROCEDURE: **Rwy 1**, climbing right turn to COE VOR/DME via heading 200° and COE R-002. **Rwy 19**, climbing left turn to COE VOR/DME via heading 140° and COE R-002.

SARATOGA, WY

SHIVELY FIELD

TAKE-OFF MINIMUMS: **Rwy 23**, 400-1 or std. with a min. climb of 220' per NM to 7400.

DEPARTURE PROCEDURE: **Rwy 5**, turn left heading 280°. **Rwy 23**, turn right heading 340°. **All aircraft** climb to 9000 via 310° bearing from SAA NDB then continue climb on course.

SCAPPOOSE, OR

SCAPPOOSE INDUSTRIAL AIRPARK

DEPARTURE PROCEDURE: **Rwy 15**, climbing left turn direct BTG VORTAC. **Rwy 33**, climbing right turn direct BTG VORTAC. Aircraft departing BTG R-160 CW R-329 climbing left turn on course. All others climb in BTG VORTAC holding pattern (NW, right turns, 149° inbound) to cross BTG VORTAC at or above MEA/MCA for direction of flight.

NOTE: **Rwy 15**, 158' MSL tree 470' from departure end of runway, 499' right of centerline. **Rwy 33**, cross departure end of runway 33 at or above 35' AGL/90' MSL. 130' MSL tree 613' from departure end of runway, 414' right of centerline; 142' MSL trees 1343' from departure end of runway, 348' right of centerline.

SCOBEE, MT

SCOBEE

TAKE-OFF MINIMUMS: **Rwy 12**, std. with a min. climb of 280' per NM to 3400.

SEATTLE, WA

BOEING FIELD/KING COUNTY INTL

TAKE-OFF MINIMUMS: **Rwy 13L**, 500-3 w/ min. climb of 232' per NM to 800, or 1000-2½ for climb in visual conditions. **Rwy 13R**, std. w/ a min. climb of 476' per NM to 900, or 500-3 w/ a min. climb of 386' per NM to 900, or 1000-2½ for climb in visual conditions. **Rwy 31L**, std. w/ a min. climb of 386' per NM to 800, or 300-1½ w/ min. climb of 235' per NM to 800, or 1000-2 ½ for climb in visual conditions. **Rwy 31R**, std. w/ a min. climb of 334' per NM to 900, or 400-1¼ w/ min. climb of 216' per NM to 900, or 1000-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 13L/R**, climbing right turn. **Rwys 31L/R**, climbing left turn. All aircraft climb direct to SEA VORTAC, continue climb in SEA VORTAC holding pattern (hold east, left turns, 290° inbound) to cross SEA VORTAC at or above 3000. For climb in visual conditions cross Boeing Field/King County Intl Airport at or above 900, then climb to 3000 via SEAR-344 to SEA VORTAC, continue climb in SEA VORTAC holding pattern (hold east, left turns, 290° inbound) to cross SEA VORTAC at or above 3000.

NOTES: **Rwy 13L**, multiple trees, towers, antennas and building beginning 402' from departure end of runway, 411' left of centerline, up to 127' AGL/479' MSL.

Rwy 13R, multiple trees and poles beginning 35' from departure end of runway, 154' left of centerline, up to 66' AGL/485' MSL. Multiple trees and poles beginning 501' from departure end of runway, 3' right of centerline, up to 77' AGL/195' MSL. **Rwy 31L**, multiple trees, fence, and building beginning 250' from departure end of runway, 253' left of centerline, up to 71' AGL/101' MSL. Multiple trees and floodlights beginning 1245' from departure end of runway, 447' right of centerline, up to 71' AGL/239' MSL. **Rwy 31R**, multiple trees, hangers, towers, poles and building beginning 12' from departure end of runway, 389' right of centerline, up to 103' AGL/350' MSL. Multiple obstruction lights beginning 214' from departure end of runway, 99' left of centerline, up to 71' AGL/101' MSL.

SEATTLE-TACOMA INTL (SEA)

AMDT 4 08325 (FAA)

DEPARTURE PROCEDURE: **Rwys 16L, 16C, 16R**, climb to 1000 via heading 163°, then climbing right turn direct SEA VORTAC, thence...

Rwys 34L, 34C, 34R, climb to 1000 via heading 343°, then climbing left turn direct SEA VORTAC, thence...
...climb in SEA VORTAC holding pattern (hold SE, left turns, 310° inbound) to MEA/MCA for route of flight.

NOTE: **Rwy 16L**, trees beginning 2908' from departure end of runway, 1064' right of centerline, up to 100' AGL/476' MSL. **Rwy 16C**, trees beginning 4477' from departure end of runway, 484' right of centerline, up to 100' AGL/507' MSL. **Rwy 16R**, trees, antenna on building and light pole beginning 488' from departure end of runway, 436' left of centerline, up to 100' AGL/507' MSL. Trees beginning 1137' from departure end of runway, 587' right of centerline, up to 100' AGL/468' MSL. **Rwy 34L**, fence 189' from departure end of runway, 401' right of centerline, up to 12' AGL/420' MSL. Trees beginning 4010' from departure end of runway, 857' left of centerline, up to 100' AGL/522' MSL.

SHELBY, MT

SHELBY

TAKE-OFF MINIMUMS: **Rwy 5**, 200-1¼ or std. w/ min. climb of 212' per NM to 3700, or alternatively, w/ std. takeoff minimums and a normal 200'/NM climb gradient, takeoff must occur no later than 1300' prior to departure end of runway.

NOTE: **Rwy 5**, fence post 320' from departure end of runway, 162' right of centerline, 12' AGL/3455' MSL, truck on road beginning 515' from departure end of runway, 632' right of centerline, 17' AGL/3498' MSL, tree 1 NM from departure end of runway, 1242' left of centerline, 75' AGL/3604' MSL. **Rwy 11**, truck on road 906' from departure end of runway, 691' left of centerline, 17' AGL/3456' MSL, tree 1697' from departure end of runway, 26' right of centerline, 75' AGL/3495' MSL, tree 1561' from departure end of runway, 322' left of centerline, 75' AGL/3514' MSL, light standard 852' from departure end of runway, 174' left of centerline, 22' AGL/3451' MSL.

SHELTON, WA

SANDERSON FIELD

TAKE-OFF MINIMUMS: **Rwy 5**, std. w/ a min. climb of 312' per NM to 4000, or 1500-2½ for a climb in visual conditions. **Rwy 23**, std. w/ a min. climb of 414' per NM to 4000, or 1500-2½ for a climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 5**, climbing right turn to intercept SEA R-230 to CARRO intersection. Or for climb in visual conditions: Cross Sanderson Field northeast bound at or above 1600, thence via SEA R-230 to cross CARRO intersection at or above 4000. **Rwy 23**, climbing left turn to intercept SEA R-230 to CARRO intersection. Or for climb in visual conditions: Cross Sanderson Field northeast bound at or above 1600, thence via SEA R-230 to cross CARRO intersection at or above 4000.

NOTE: **Rwy 5**, multiple trees beginning 550' from departure end of runway, 107' left of centerline, up to 94' AGL/366' MSL. Multiple trees beginning 130' from departure end of runway, 70' right of centerline, up to 80' AGL/352' MSL. **Rwy 23**, multiple trees beginning 52' from departure end of runway, 149' left of centerline, up to 72' AGL/330' MSL. Multiple trees beginning 886' from departure end of runway, 153' right of centerline, up to 155' AGL/486' MSL.

SHERIDAN, WY

SHERIDAN COUNTY

TAKE-OFF MINIMUMS: **Rwy 5**, 700-3 or std. w/ min. climb of 318' per NM to 5100, or... **Rwy 14**, 800-3 or std. w/ min. climb of 263' per NM to 5100, or... **Rwy 23**, 900-3 or std. w/ min. climb of 348' per NM to 5100, or...
... 1400/3 for climb in visual conditions. Climb in visual conditions NA at night.

DEPARTURE PROCEDURE: **Rwy 5**, climbing left turn via SHR R-106 to SHR VORTAC, or climb in visual conditions to cross Sheridan County Airport northwestbound at or above 5300, then via SHR R-126 to SHR VORTAC, thence... **Rwy 14**, climbing left turn via heading 320° and SHR R-106 to SHR VORTAC, or climb in visual conditions to cross Sheridan County Airport northwestbound at or above 5300, then via SHR R-126 to SHR VORTAC, thence... **Rwy 23**, climbing right turn via SHR R-153 to SHR VORTAC, or climb in visual conditions to cross Sheridan County Airport northwestbound at or above 5300, then via SHR R-126 to SHR VORTAC, thence... **Rwy 32**, climb via heading 320° and SHR R-106 to SHR VORTAC, thence...
... climb in holding pattern (hold northwest, left turn, 133° inbound) to cross SHR VORTAC at or above airway MEA for route of flight.

NOTE: **Rwy 5**, multiple trees beginning 101' from departure end of runway, 188' left of centerline, up to 80' AGL/3991' MSL. **Rwy 23**, fence 1201' from departure end of runway, 10' left of centerline, 20' AGL/4060' MSL. Building 1949' from departure end of runway, 415' left of centerline, 17' AGL/4077' MSL. Tree 3337' from departure end of runway, 391' right of centerline, 43' AGL/4143' MSL. **Rwy 32**, antenna 53' from departure end of runway, 398' right of centerline, 20' AGL/4020' MSL.

SIDNEY, MT

SIDNEY-RICHLAND MUNI

TAKE-OFF MINIMUMS: **Rwy 28**, 400-2 or std. with a min. climb of 260' per NM to 2300.

SNOHOMISH, WA

HARVEY FIELD (S43)

ORIG 09127 (FAA)

TAKE-OFF MINIMUMS: **Rwys 15R, 33L**, NA-obstacles. **Rwy 15L**, std. w/ min. climb of 353' per NM to 1100, or 1200-2½ for climb in visual conditions. **Rwy 33R**, std. w/ min. climb of 475' per NM to 800, or 1200-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 15L**, climbing right turn on 344° course to WATON LOM, or for climb in visual conditions, cross Harvey Field at or above 1100 then proceed on 329° course to WATON LOM, thence... **Rwy 33R**, climb on 329° course to WATON LOM, or for climb in visual conditions, cross Harvey Field at or above 1100 then proceed on 329° course to WATON LOM, thence...

... aircraft departing WATON LOM on bearings 150° CW 340° from WATON LOM climb on course. Aircraft departing WATON LOM on bearings 340° CW 150° from WATON LOM, climb in holding pattern (South, left turns, 339° inbound) to cross WATON LOM at or above 4500 before proceeding on course.

NOTE: **Rwy 15L**, tree 81' from DER, 177' right of centerline, 40' AGL/106' MSL. Trees 685' from DER, left and right of centerline, up to 48' AGL/70' MSL. **Rwy 33R**, powerline 139' from DER, 226' left of centerline, 40' AGL/56' MSL. Tree 298' from DER, 205' right of centerline, 104' AGL/121' MSL. Tower 5708' from DER, 1956' right of centerline, 206' AGL/300' MSL.

SPOKANE, WA

FELTS FIELD (SFF)

AMDT 5 10098 (FAA)

TAKE-OFF MINIMUMS: **Rwy 3L**, std. w/min. climb of 450' per NM to 3600, or 2300-3 for climb in visual conditions. **Rwy 3R**, std. w/min. climb of 410' per NM to 3700, or 2300-3 for climb in visual conditions. **Rwy 21L**, std. w/min. climb of 375' per NM to 3200, or 2300-3 for climb in visual conditions. **Rwy 21R**, std. w/min. climb of 375' per NM to 3200, or 2300-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 3L, 3R**, climb heading 035° to 3600, then climbing right turn heading 210° and GEG R-050 to GEG VORTAC, or for climb in visual conditions: cross Felts Field Airport at or above 4100, then via heading 165° and GEG R-050 to GEG VORTAC. Cross GEG VORTAC at or above MCA/MEA for route of flight. **Rwys 21L, 21R**, climb heading 215° to 3200, then climbing left turn heading 190° and GEG R-050 to GEG VORTAC, or for climb in visual conditions: cross Felts Field Airport at or above 4100, then via heading 165° and GEG R-050 to GEG VORTAC. Cross GEG VORTAC at or above the MCA/MEA for route of flight.

NOTE: **Rwy 3L**, trees beginning 1853' from DER, 772' right of centerline, up to 100' AGL/2037' MSL. Trees beginning 3538' from DER, 529' left of centerline, up to 100' AGL/2339' MSL. Antenna, trees and transmission poles beginning 1.5 NM from DER, 16' left of centerline, up to 100' AGL/2579' MSL. Trees beginning 2.3 NM from DER, 723' right of centerline, up to 100' AGL/2499' MSL. **Rwy 3R**, hangar, NDB, and trees beginning 92' from DER, 269' right of centerline, up to 100' AGL/2040' MSL. Trees beginning 4685' from DER, 1033' left of centerline, up to 100' AGL/2339' MSL. Antenna, trees and transmission poles beginning 1.6 NM from DER, 525' left of centerline, up to 100' AGL/2559' MSL. Trees and transmission poles beginning 2.6 NM from DER, 214' right of centerline, up to 150' AGL/2570' MSL. **Rwy 21L**, elevator, pole on building and trees beginning 315' from DER, 302' left of centerline, up to 140' AGL/2080' MSL. **Rwy 21R**, poles and trees beginning 188' from DER, 13' right of centerline, up to 100' AGL/1982' MSL. Elevator, pole, hangar, and building beginning 203' from DER, 1' left of centerline, up to 140' AGL/2080' MSL. Terrain and trees beginning 3.1 NM from DER, 4904' left of centerline, up to 100' AGL/2559' MSL.

SPOKANE INTL

DEPARTURE PROCEDURE: **All aircraft** climb direct GEG VORTAC. Continue climb via R-208 within 10 miles to cross GEG VORTAC at or above: northeastbound V120-448, 5200; eastbound V2, 5200, southeast thru westbound climb on course.

STEVENSVILLE, MT

STEVENSVILLE

TAKE-OFF MINIMUMS: **Rwy 12**, do not exceed 210 knots until established on MSOR-163. **Rwy 30**, do not exceed 210 knots until established on MSOR-160.

DEPARTURE PROCEDURE: **Rwy 12**, climbing right turn via heading 335 and MSOR-163 to MSO VOR/DME climb in MSO VOR/DME holding pattern (southeast, right turn, 340° inbound) to 13000' before proceeding on course. **Rwy 30**, climbing right turn via heading 025° and MSOR-160 to MSO VOR/DME Climb in MSO VOR/DME holding pattern (southeast, right turn, 340° inbound) to 13000' before proceeding on course.

SUNRIVER, OR

SUNRIVER

TAKE-OFF MINIMUMS: **Rwy 18**, 300-1 or std. with a min. climb of 360' per NM to 4400. **Rwy 36**, 600-2 or std. with a min. climb of 240' per NM to 4900.

DEPARTURE PROCEDURE: **Rwy 18**, climb runway heading to 7000 then climbing left turn direct DSD VORTAC. **Rwy 36**, climb direct to DSD VORTAC. Then **all aircraft** climb on course.

TACOMA, WA

TACOMA NARROWS

TAKE-OFF MINIMUMS: **Rwy 35**, 400-1 or std. with a min. climb of 210' per NM to 400'.

DEPARTURE PROCEDURE: **Rwy 17**, turn right, climb via heading 230° to intercept OLM R-009 then direct OLM VORTAC. **Rwy 35**, turn left, climb via heading 270° to intercept SEA R-230 then direct CARRO INT. Continue climb in holding (SW, right turns, 047° inbound) to MEA or assigned altitude for route of flight.

THE DALLES, OR

COLUMBIA GORGE RGNL/THE DALLES MUNI

TAKE-OFF MINIMUMS: **Rwy 2**, CAT A,B 1100-2 or std. with a min. climb of 350' per NM to 1500. CAT C,D 2600-3 or std. with a min. climb of 475' per NM to 3100. **Rwy 7**, 900-3 or std. with a min. climb of 330' per NM to 1200. **Rwy 12**, 1400-3 or std. with a min. climb of 500' per NM to 2000. **Rwy 20**, 1800-3 or std. with a min. climb of 470' per NM to 2200. **Rwy 25**, NA. **Rwy 30**, 2900-3 or std. with a min. climb of 500' per NM to 2700.

DEPARTURE PROCEDURE: **Rwys 2,7**, climbing right turn heading 120°. **Rwy 12**, climb via runway heading. **Rwys 20, 30**, climbing left turn heading 120°. **All aircraft** intercept and climb southbound via LTJ R-165 to 3500. Then climbing left turn direct LTJ VORTAC. Continue climb in LTJ holding pattern (E, right turns, 260° inbound) to cross LTJ VORTAC at or above MCA or MEA for route of flight.

TILLAMOOK, OR

TILLAMOOK

TAKE-OFF MINIMUMS: **Rwys 1, 13, 19**, NA. **Rwy 31**, 2000-3 or std. with a min. climb of 350' per NM to 4500. DEPARTURE PROCEDURE: **Rwys 1, 13, 19**, NA. **Rwy 31**, use FETUJ RNAV DEPARTURE.

TORRINGTON, WY

TORRINGTON MUNI (TOR)

ORIG 10042 (FAA)

NOTE: **Rwy 2**, terrain 30' from DER, 277' left of centerline, 4197' MSL. **Rwy 10**, multiple trees and fence beginning 71' from DER, 143' right of centerline, up to 14' AGL/4214' MSL. Terrain 14' from DER, 502' left of centerline, 4199' MSL. **Rwy 28**, terrain 133' from DER, 386' right of centerline, 4213' MSL.

TWIN FALLS, ID

JOSLIN FIELD-MAGIC VALLEY RGNL

TAKE-OFF MINIMUMS: **Rwy 12**, NA.

DEPARTURE PROCEDURE: Aircraft departing on TWFR-240 CW R-080 climb on course. All others climb runway heading 6000 then climbing turn direct TWV VORTAC. Climb in holding pattern (NW, right turns, 113° inbound) to MCA or MEA as appropriate for direction of flight.

VANCOUVER, WA

PEARSON FIELD (VUO)

AMDT 2 07354 (FAA)

TAKE-OFF MINIMUMS: **Rwy 8**, std. w/ min. climb of 358' per NM to 600, or 500-3 w/ min. climb of 201' per NM to 600, or 900-2½ for climb in visual conditions.

Rwy 26, 600-3 or 900-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 8**, climb heading 079° to 500 then climbing left turn direct BTG VORTAC, thence... or for climb in visual conditions: cross Pearson Field at or above 800 MSL then proceed on BTG VORTAC R-179 to BTG VORTAC, thence... **Rwy 26**, climb heading 259° to 700 then climbing right turn direct BTG VORTAC, thence... or for climb in visual conditions: cross Pearson Field at or above 800 MSL then proceed on BTG VORTAC R-179 to BTG VORTAC, thence...

...continue climb in BTG VORTAC holding pattern (hold northwest, right turn, 149° inbound) to cross BTG VORTAC at or above MEA/MCA for route of flight.

NOTE: **Rwy 8**, tree 1.4 NM from departure end of runway, 1283' left of centerline, 100' AGL/395' MSL. Tree 1.7 NM from departure end of runway, 701' left of centerline, 100' AGL/401' MSL. Tree 2 NM from departure end of runway, 849' left of centerline, 100' AGL/406' MSL. Tree 2.4 NM from departure end of runway, 648' left of centerline, 100' AGL/399' MSL. **Rwy 26**, bridge 2704' from departure end of runway, 587' left of centerline, 243' AGL/245' MSL. Crane 1.5 NM from departure end of runway, 2563' right of centerline, 237' AGL/267' MSL. Transmission line tower 2.5 NM from departure end of runway, 2036' right of centerline, 516' AGL/534' MSL.

WALLA WALLA, WA

WALLA WALLA RGNL

DEPARTURE PROCEDURE: **Rwys 2, 7, 20, 25, 34**, turn left. **Rwy 16**, turn right. All aircraft climb to 2500 via ALW VOR/DME R-195, then climbing right turn direct ALW VOR/DME to cross ALW VOR/DME at or above MEA or MCA for route of flight.

NOTE: **Rwy 16**, antenna 365' from departure end of runway, 97' right of centerline, 1155' MSL. Terrain 1' from departure end of runway 140' left of centerline, 1145' MSL. **Rwy 20**, light 666' from departure end of runway, 640' left of centerline, 1170' MSL. **Rwy 34**, terrain 213' from departure end of runway, 230' right of centerline, 1130' MSL.

WEISER, ID

WEISER MUNI (S87)

ORIG 08269 (FAA)

TAKE-OFF MINIMUMS: **Rwy 12**, std. w/ min. climb of 310' per NM to 3900 or 2400-3 for climb in visual conditions. **Rwy 30**, std. w/ min. climb of 360' per NM to 4000 or 2400-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 12**, climb heading 121° to 3900 before proceeding on course. **Rwy 30**, climb heading 301° to 4000 before proceeding on course ... for climb in visual conditions: cross Weiser Muni airport at or above 4400 before proceeding on course.

NOTE: **Rwy 12**, tree 248' from departure end of runway, 443' right of centerline, 100' AGL/2184' MSL. **Rwy 30**, tree 1907' from departure end of runway, 769' right of centerline, 100' AGL/2174' MSL.

WENATCHEE, WA

PANGBORN MEMORIAL

TAKE-OFF MINIMUMS: **Rwy 7**, NA. **Rwy 12**, 1500-2 or std. with a min. climb of 510' per NM to 2900.

Rwys 25, 30, CAT A, B 1600-2 or std. with a min. climb of 360' per NM to 3100. CAT C, D 5500-3 or std. with a min. climb of 570' per NM to 7200.

DEPARTURE PROCEDURE: **Rwy 12**, climb runway heading. **Rwys 25, 30**, climbing left turn. All aircraft climb via EAT R-113 to 4000 then climbing left turn direct EAT VOR/DME. Aircraft departing EAT R-010 CW R-140 climb on course. All others continue climb in EAT VOR/DME holding pattern (E, right turns, 253° inbound) to cross EAT VOR/DME at or above: R-141 CW R-2007400; R-201 CW R-009, 8200.

WEST YELLOWSTONE, MT

YELLOWSTONE

TAKE-OFF MINIMUMS: **Rwy 19**, 2200-2 or std. with a min. climb of 245' per NM to 8900. FAR 135 AUTH:

Rwy 1, ½ mile.

DEPARTURE PROCEDURE: **Rwy 1**, turn right.

All aircraft climb direct TARGY LOM. Aircraft departing TARGY LOM on bearing 190° CW 220° climb on course. All others climb south on bearing 190° within 10 NM of TARGY LOM turn left and continue climbing direct TARGY LOM to cross TARGY LOM at or above: bearing 360° CW 190° 9300, bearing 220° CW 360° 10500

WHEATLAND, WY

PHIFER AIRFIELD

DEPARTURE PROCEDURE: **Rwy 8**, climbing left turn to 9000 via heading 030° to intercept IIP VOR/DME R-140° to JZZY Int, thence. . . **Rwy 26**, climbing right turn to 9000 via heading 360° and GYZ NDB course 051° to JZZY INT, thence. . .

...continue climb-in-hold (hold northwest, right turn, 140° inbound) to 9000 before proceeding on course.

NOTE: **Rwy 8**, multiple trees 512' from departure end of runway, 584' left of centerline, 100' AGL/4859' MSL.

Rwy 26, multiple trees, buildings, poles/lights, siren, roads w/ vehicles beginning 2' from departure end of runway, on centerline, to 488' left of centerline, 100' AGL/4899' MSL. Multiple trees, buildings, poles/lights, roads w/ vehicles beginning 2' from departure end of runway, on centerline to 499' right of centerline, 100' AGL/4859' MSL.

WHIDBEY ISLAND NAS (AULT FIELD) (NUW)

OAK HARBOR, WA. 07186

Diverse departures not authorized.

MILITARY DEPARTURE PROCEDURE: **Rwy 7**:

Minimum climb of 430'/NM until 600. Climbing left turn to 2000, intercept NUW R-067, expect radar vectors to join assigned route. **Rwy 14**: Climbing left turn to 2000, intercept NUW R-128, expect radar vectors to join assigned route. **Rwy 25**: Climb to 2000 via heading 249°, expect radar vectors to join assigned route. **Rwy 32**: Climb to 2000 via heading 317°, expect radar vectors to join assigned route. **ALL RWYS**: If vectors are not received by 10 DME of NUW TACAN, climb to 3000, intercept the NUW 11 DME ARC to join assigned route. CIVIL DEPARTURE PROCEDURE: **Rwy 7**: Minimum climb of 270'/NM until 700. Climbing left turn to 2000 via heading 067°, expect radar vectors to join assigned route. **Rwy 14**: Climbing left turn to 2000, via heading 128°, expect radar vectors to join assigned route. **Rwy 25**: Use published DP or climb to 2000 via heading 249°, expect radar vectors to join assigned route. **Rwy 32**: Climb to 2000 via heading 317°, expect radar vectors to join assigned route. **ALL RWYS**: If vectors are not received by 10 DME of NUW TACAN, climb to 3000, proceed direct CVV VOR/DME to join assigned route. TAKEOFF OBSTACLES: **Rwy 7**: Terrain, 7813' from DER, 2469' left of centerline, 276' MSL. Trees, 4274' from DER, 5472' left of centerline, 472' MSL. Trees, 5239' from DER, 6257' left of centerline, 495' MSL. Trees, 8561' from DER, 3685' left of centerline, 426' MSL. Trees, 12,561' from DER, 4814' right of centerline, 462' MSL. Terrain, 11,843' from DER, 7129' left of centerline, 502' MSL. Trees, 15,361' from DER, 4015' right of centerline, 521' MSL.

WORLAND, WY

WORLAND MUNI

TAKE-OFF MINIMUMS: **Rwys 4, 10, 22, 28**, NA.

Rwy 16, 300-2 or std. with a min. climb of 230' per NM to 4600.

DEPARTURE PROCEDURE: **All aircraft** climb to 5000, then direct RLY VOR/DME. Aircraft departing RLY R-061 CWR-349 climb on course. All others continue climb in RLY VOR/DME holding pattern (N, right turns, 159° inbound) to cross RLY VOR/DME at or above 7000.

YAKIMA, WA

YAKIMA AIR TERMINAL/MCALLISTER FIELD

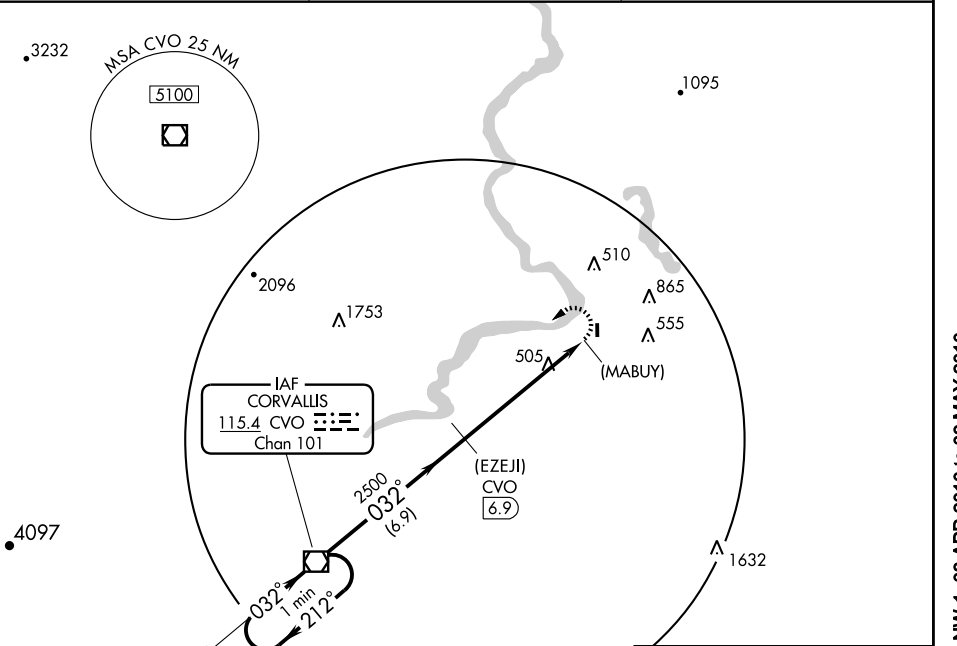
TAKE-OFF MINIMUMS: **Rwy 4**, NA. **Rwy 9**, 800-4 or std. with a min. climb of 300' per NM to 5000. **Rwys 22, 27**, 2500-3 or std. with a min. climb of 300' per NM to 5200.

DEPARTURE PROCEDURE: **Rwy 4**, NA. **Rwys 9, 22, 27**, Use ZILLA DEPARTURE PROCEDURE.

Use Corvallis altimeter setting.

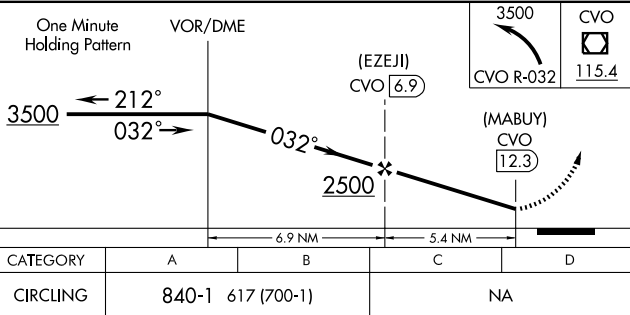
MISSED APPROACH: Climbing left turn to 3500 via CVO R-032 to CVO VOR/DME and hold.

CORVALLIS AWOS-3 135.775	CASCADE APP CON ★ 127.5 348.7	UNICOM 122.8 (CTAF) 0
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NoPT for arrivals on CVO VOR/DME airways radials 154 clockwise to 177.

ELEV 223



032° 5.4 NM from FAF

REIL Rwy 34
MIRL Rwy 16-34

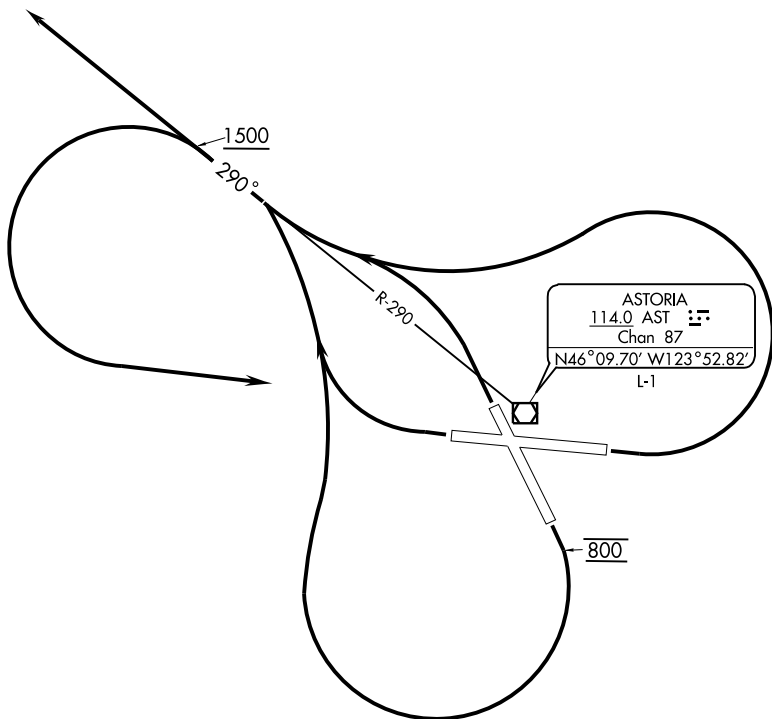
(AST1.AST) 07298

ASTORIA ONE DEPARTURE (OBSTACLE) SL-24 (FAA)

ASTORIA RGNL (AST)

ASTORIA, OREGON

SEATTLE CENTER
124.2 317.6
McMINNVILLE RADIO
122.3



NOTE: TAKE-OFF MINIMUMS: Rwy 8, 800-3 or standard with minimum climb of 320' per NM to 900'. Rwy 13, 700-2 or standard with minimum climb of 350' per NM to 800'. Rws 26,31, Standard.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 8,31: Turn left. Thence....

TAKE-OFF RUNWAY 26: Turn right. Thence....

TAKE-OFF RUNWAY 13: Climb runway heading to 800 then climbing right turn. Thence....

.... Aircraft departing northwest bound climb via AST R-290 on course. All other aircraft climb to 1500 or above via AST R-290 then left turn to AST VOR/DME and continue climbing on course.

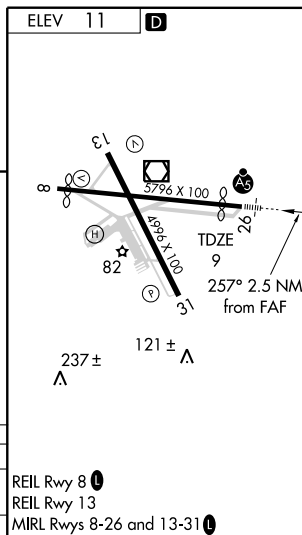
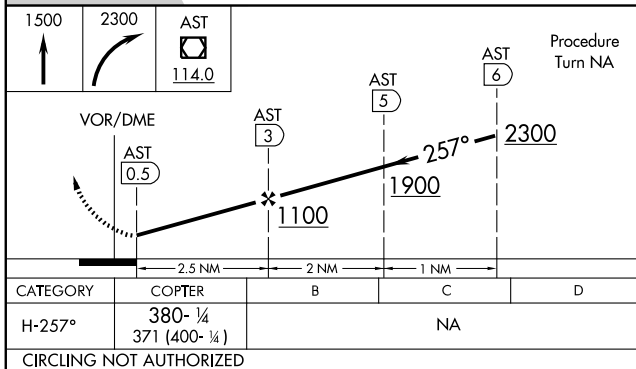
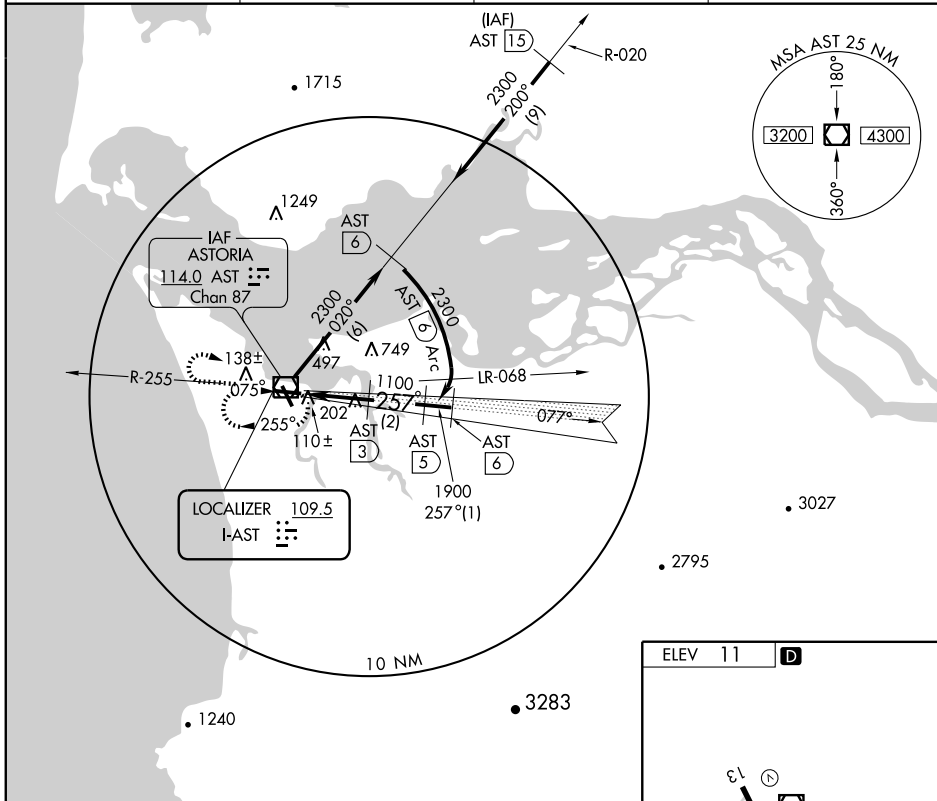
LOC I-AST	APP CRS	Rwy Idg TDZE	N/A
109.5	257°	Apt Elev	11

COPTER LOC/DME 257° ASTORIA RGNL (AST)

V DME from AST VOR/DME. Simultaneous reception of I-AST and AST VOR/DME required.
NA Increase visibility to ½ mile for inoperative MALSR.

MISSED APPROACH: Climb to 1500 then climbing right turn to 2300 direct AST VOR/DME and hold.

ASOS	SEATTLE CENTER	MC MINNVILLE RADIO	UNICOM
135.375	124.2 317.6	122.3	122.8 (CTAF) 0



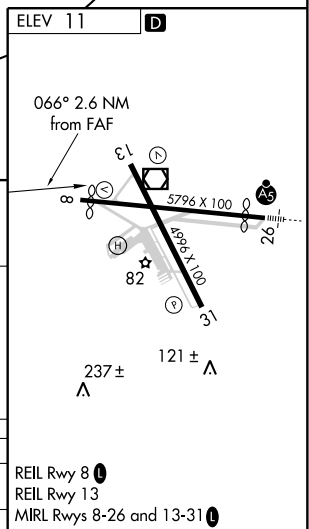
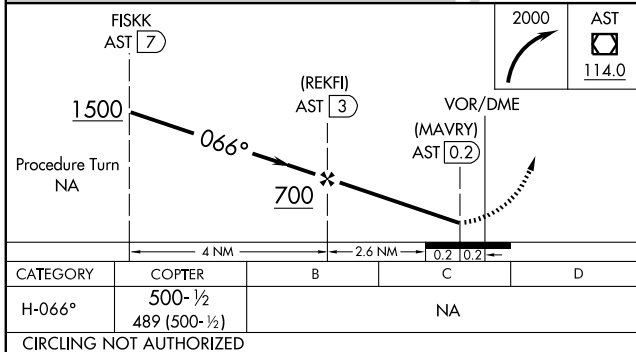
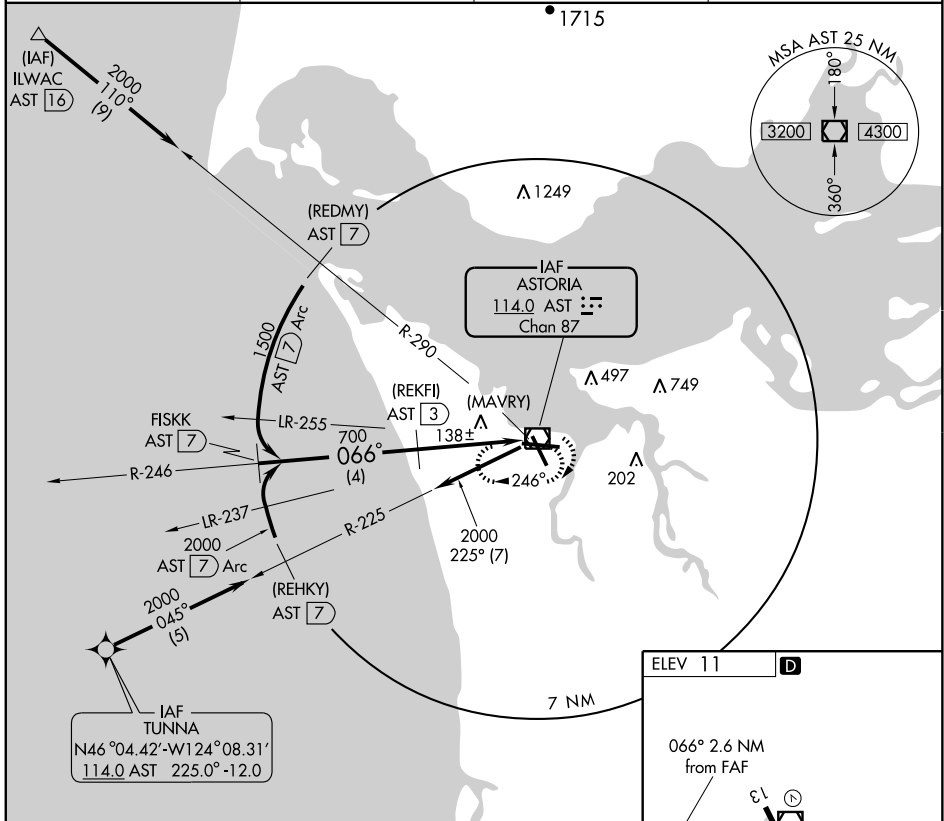
VOR/DME AST 114.0 Chan 87	APP CRS 066°	Rwy Idg TDZE Apt Elev 11	N/A N/A 11
---	------------------------	--	-------------------------

COPTER VOR/DME or GPS 066°

ASTORIA RGNL (AST)

<p>NA</p>	<p>MISSED APPROACH: Climbing right turn to 2000 in AST VOR/DME holding pattern.</p>
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<p>ASOS 135.375</p>	<p>SEATTLE CENTER 124.2 317.6</p>	<p>MC MINNVILLE RADIO 122.3</p>	<p>UNICOM 122.8 (CTAF) 0</p>
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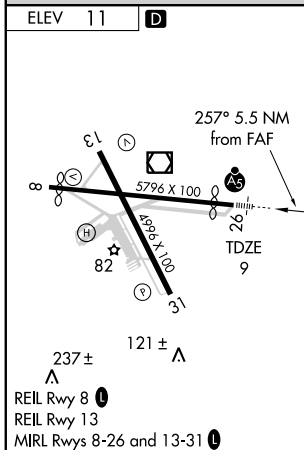
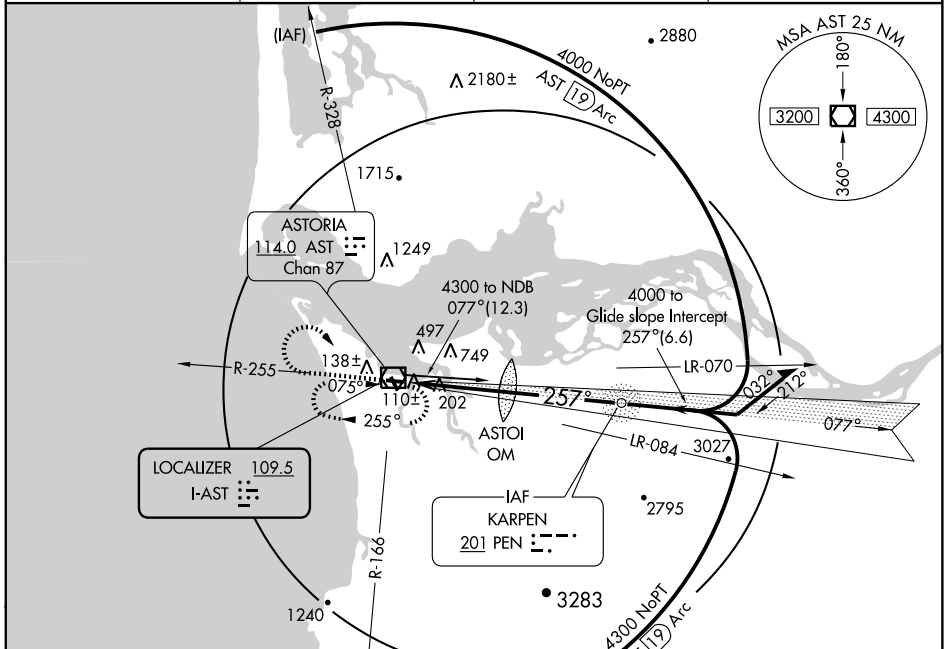


LOC I-AST 109.5	APP CRS 257°	Rwy Idg TDZE Apt Elev 4782 9 11
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ILS RWY 26 ASTORIA RGNL (AST)

<p>MAJ NA</p> <p>Circling requires descent on GS to MDA.</p>	<p>MALSR AS</p> <p>MISSED APPROACH: Climb to 1500 then climbing right turn to 2900 direct AST VOR/DME and hold.</p>
--	---

ASOS 135.375	SEATTLE CENTER 124.2 317.6	MC MINNVILLE RADIO 122.3	UNICOM 122.8 (CTAF)
------------------------	--------------------------------------	------------------------------------	-------------------------------



ELEV 11 D			
ADF or DME REQUIRED			
1500	2900	AST 114.0	NDB
<p>ASTOI OM 1837</p> <p>3961</p> <p>077°</p> <p>257°</p> <p>4000</p> <p>GS 3.00°</p> <p>TCH 55</p>			
<p>5.5 NM</p> <p>6.4 NM</p>			
CATEGORY	A	B	C
S-ILS 26	292-¾ 283 (300-¾)		
S-LOC 26	Approach not authorized when glide slope not utilized.		
CIRCLING ILS	700-1 689 (700-1)	760-1¼ 749 (800-1¼)	800-2¼ 789 (800-2¼)
		880-2¾ 869 (900-2¾)	

WAAS
CH 97711
W26A

APP CRS
257°

Rwy Idg
TDZE
Apt Elev

4782
14
15

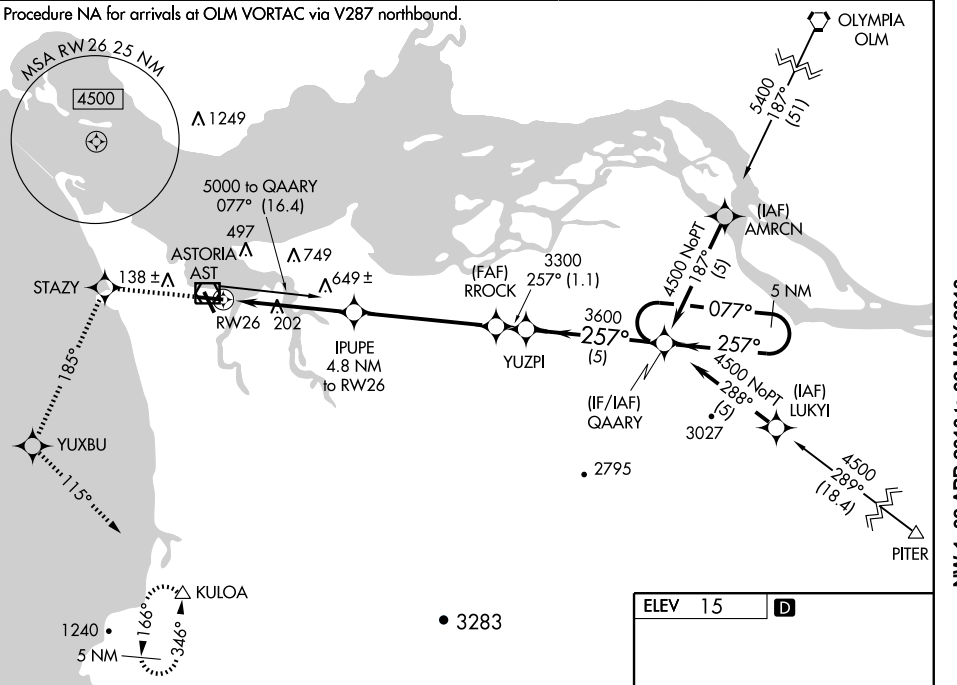
▼
▲

Inoperative table does not apply. DME/DME RNP -0.3 NA.
Visibility reduction by helicopters NA.
When local altimeter setting not received, use Kelso altimeter setting and increase all DA 95 feet and all MDA 100 feet;
increase LPV all Cats, LNAV Cats C and D and circling Cats C and D visibility ¼ mile.

MALSR
A5

MISSED APPROACH: Climb to 5000 direct STAZY and via track 185° to YUXBU and via track 115° to KULOA and hold.

ASOS 135.375	SEATTLE CENTER 124.2 317.6	MC MINNVILLE RADIO 122.3	UNICOM 122.8 (CTAF) 1
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5000	STAZY	185° trk	YUXBU	115° trk	KULOA	5 NM	QAARY	5 NM Holding Pattern
↑	✧		✧		△			
*LNAV only								
CATEGORY	A		B		C		D	
LPV DA	300-1		286 (300-1)					
LNAV MDA	900-1¼	886 (900-1¼)	900-2¾ 886 (900-2¾)	900-3 886 (900-3)				
CIRCLING	900-1¼	885 (900-1¼)	900-2¾ 885 (900-2¾)	900-3 885 (900-3)				

ELEV 15

D



REIL Rwy 8 1
REIL Rwy 13
MIRL Rwy 8-26 and 13-31 1

NW-1. 08 APR 2010 to 06 MAY 2010

AL-24 (FAA)

VOR/DME AST <u>114.0</u> Chan 87	APP CRS 066°	Rwy Idg 4896 TDZE 14 Apt Elev 15
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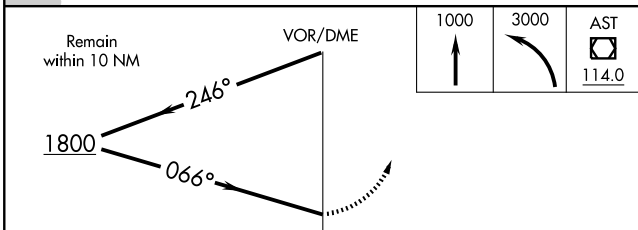
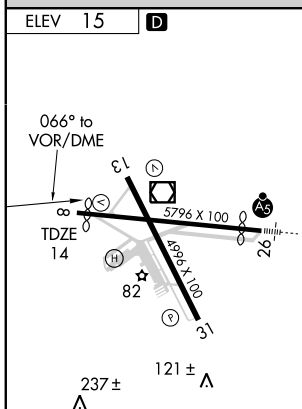
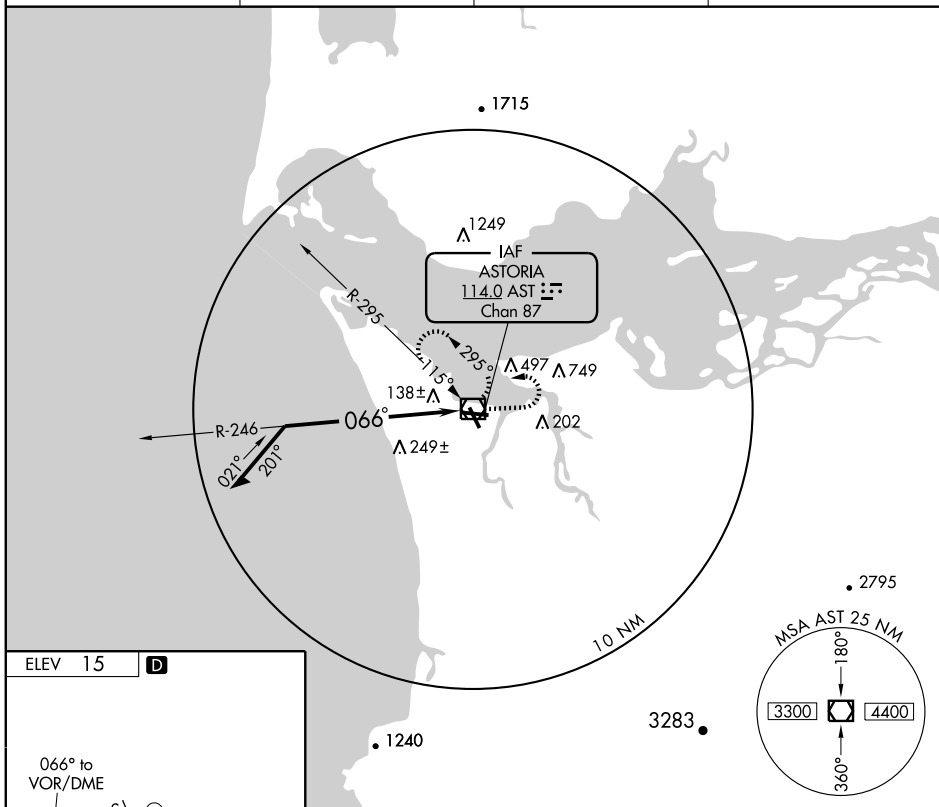
VOR RWY 8
ASTORIA RGNL (AST)

 	<p>MISSED APPROACH: Climb to 1000 then climbing left turn to 3000 in AST VOR/DME holding pattern.</p>
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ASOS
135.375

SEATTLE CENTER
124.2 317.6

MC MINNVILLE RADIO
122.3

UNICOM
122.8 (CTAF) **L**

CATEGORY	A	B	C	D
S-8	660-1	646 (700-1)	660-1 $\frac{3}{4}$ 646 (700-1 $\frac{3}{4}$)	660-2 646 (700-2)
CIRCLING	660-1 645 (700-1)	760-1 $\frac{1}{4}$ 745 (800-1 $\frac{1}{4}$)	800-2 $\frac{1}{4}$ 785 (800-2 $\frac{1}{4}$)	900-3 885 (900-3)

REIL Rwy 8 **L**
REIL Rwy 13
MIRL Rwy 8-26 and 13-31 **L**

NW-1. 08 APR 2010 to 06 MAY 2010

HELNS FOUR ARRIVAL

ST-330 (FAA)

PORTLAND, OREGON

PORTLAND APP CON

124.35 299.2

PORTLAND INTL ATIS

128.35 269.9

PORTLAND-HILLSBORO ATIS

127.65

SEATTLE

116.8 SEA

Chan 115

N47°26.12'-W122°18.58'

L-1, H-1

10000
+9700
161°
(71)HELNS
N46°15.42'
W122°18.58'10000
180°
(111)7000
(22)

BATTLE GROUND

116.6 BTG

Chan 113

N45°44.87'-W122°35.49'

KRATR

N46° 05.39' - W122° 24.17'

NOTE: Maintain the last assigned altitude. Upon receipt of "Descend via the HELNS4": . . .

PROP/TURBOPROP: Cross at and maintain 10,000'.

TURBOJET: Cross at and maintain 12,000' at 300 K IAS or less.

PORTLAND
INTLPORTLAND-
HILLSBORO

PORTLAND-TROUTDALE

AURORA
STATE

NOTE: Chart not to scale.

NOTE: DME and RADAR required.

SEATTLE TRANSITION (SEA.HELNS4): From over SEA VORTAC via SEA R-161 to HELNS DME FIX. Thence....

.... From over HELNS DME FIX via BTG R-360 to BTG VORTAC. Thence....

LANDING EAST: Depart BTG VORTAC heading 280° for vectors to final approach course.

LANDING WEST: Depart BTG VORTAC heading 110° for vectors to final approach course.

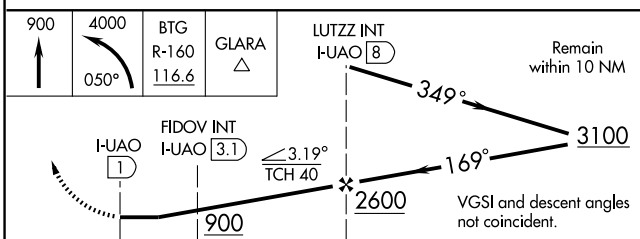
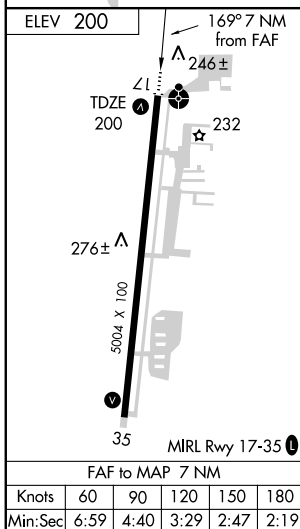
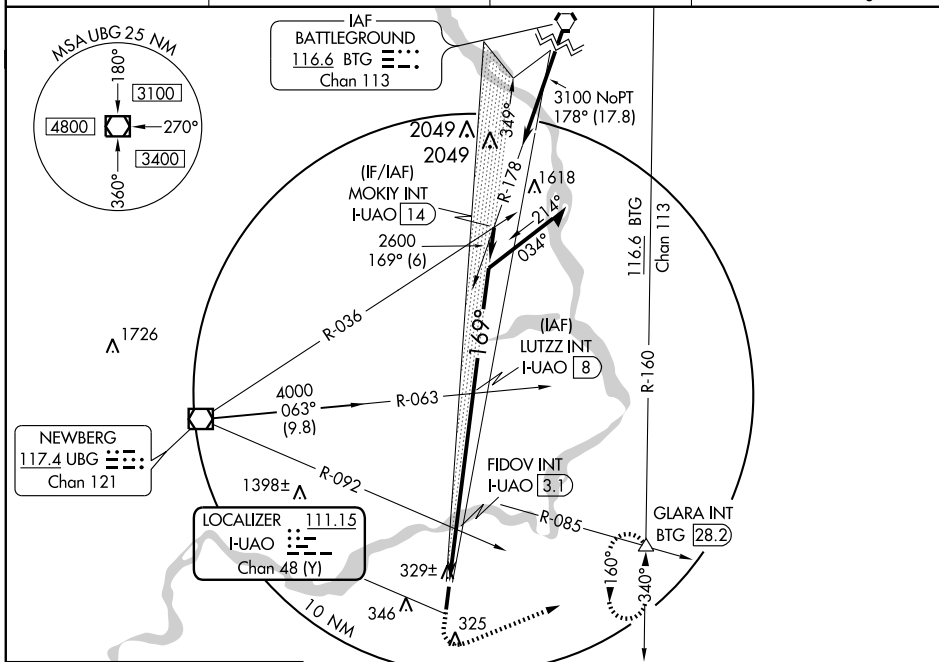
LOC/DME I-UAO 111.15 Chan 48(Y)	APP CRS 169°	Rwy Idg TDZE Apt Elev	5004 200 200
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LOC RWY 17

AURORA STATE (UAO)

<p>▼ Inoperative table does not apply.</p> <p>▲</p>	<p>ODALS</p> <p>MISSED APPROACH: Climb to 900 then climbing left turn to 4000 via heading 050° and BTG R-160 to GLARA Int/ BTG 28.2 DME and hold. Continue climb-in-hold to 4000.</p>
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ASOS 118.525	PORTLAND APP CON 126.0 284.6	CLNC DEL 119.95	UNICOM 122.7 (CTAF) 0
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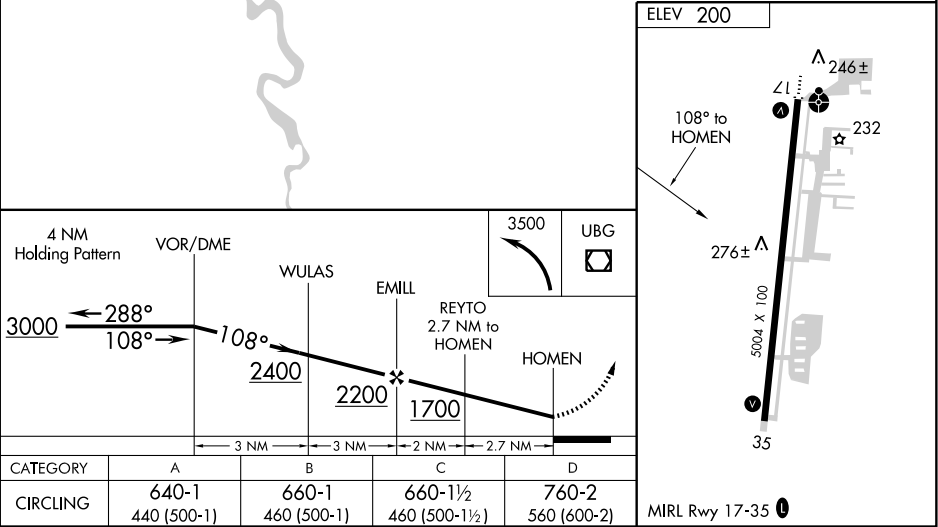
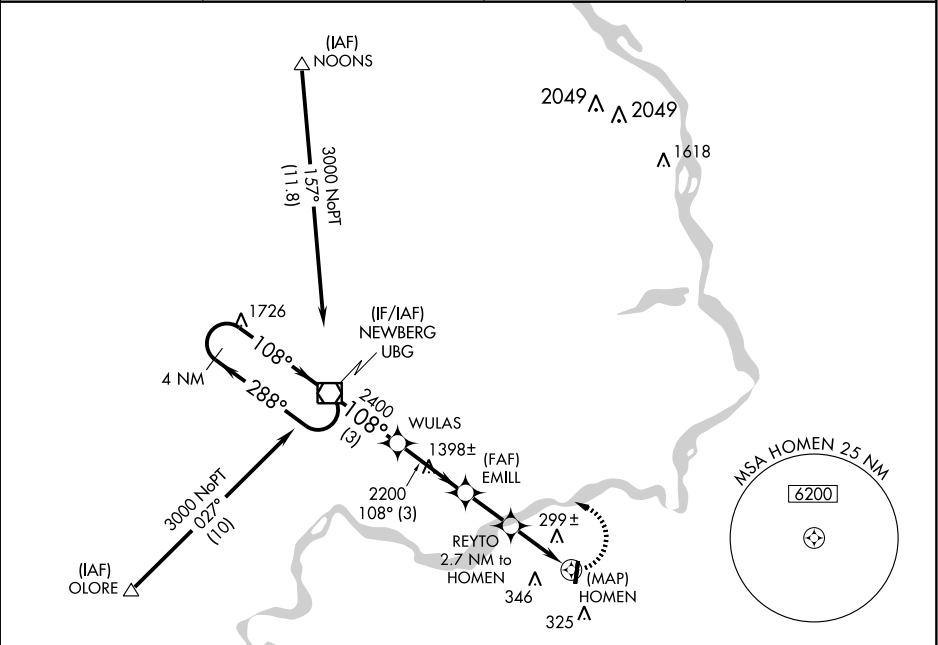


CATEGORY	A	B	C	D
S-17	900-1 700 (700-1)		900-2 700 (700-2)	900-2 700 (700-2 1/4)
CIRCLING	900-1 700 (700-1)		900-2 700 (700-2)	900-2 700 (700-2 1/4)
FIDOV FIX MINIMUMS				
S-17	580-1 380 (400-1)			580-1 380 (400-1 1/4)
CIRCLING	640-1 440 (500-1)	660-1 460 (500-1)	660-1 460 (500-1 1/2)	760-2 560 (600-2)

APP CRS	Rwy Idg	N/A
108°	TDZE	N/A
	Apt Elev	200

<div><div>▼</div><div>DME/DME RNP- 0.3 NA.</div></div>	MISSED APPROACH: Climbing left turn to 3500 direct UBG VOR/DME and hold.
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ASOS 118.525	PORTLAND APP CON 126.0 284.6	CLNC DEL 119.95	UNICOM 122.7 (CTAF) 0
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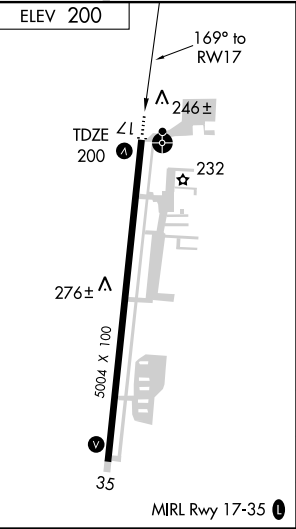
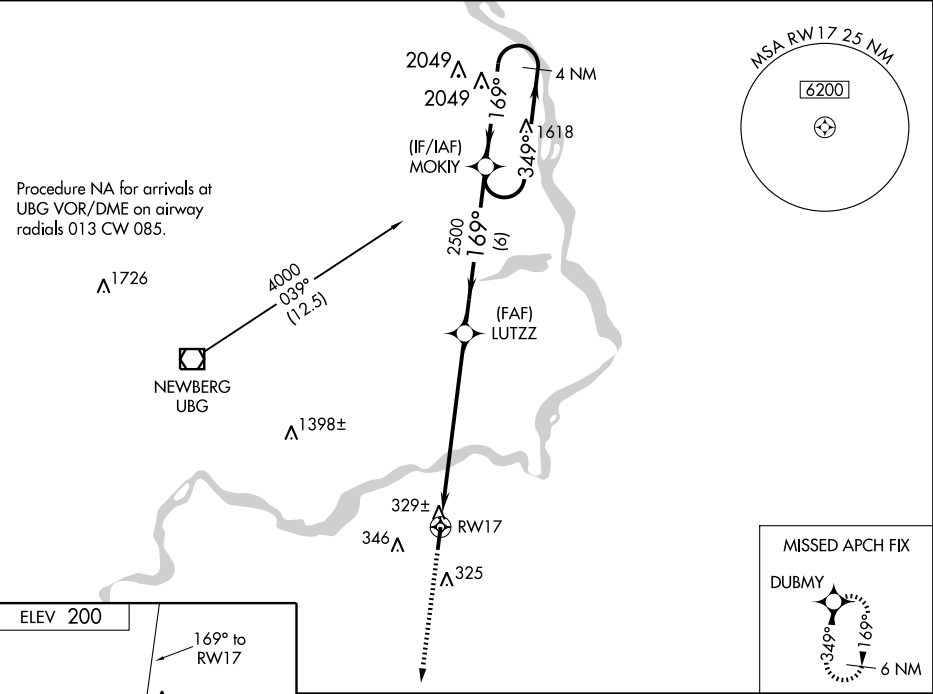
WAAS CH 70308 W17A	APP CRS 169°	Rwy Idg TDZE Apt Elev	5004 200 200
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⚠ DME/DME RNP-0.3 NA. When local altimeter setting not received, use Mc Minnville Muni altimeter setting and increase all DA 42 feet and all MDA 60 feet; increase LPV, LNAV/VNAV visibilities all Cats. ¼ mile, increase LNAV visibility Cats. A/C/D ¼ mile, increase Circling visibilities Cats. A/C/D ¼ mile. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 49°C (120°F). Inoperative table does not apply. Visibility reduction by helicopters NA.

ODALS

MISSED APPROACH:
Climb to 3500 direct DUBMY and hold, continue climb-in-hold to 3500.

ASOS 118.525	PORTLAND APP CON 126.0 284.6	CLNC DEL 119.95	UNICOM 122.7 (CTAF)
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3500	DUBMY	VGSI and RNAV glidepath not coincident.	MOKIY	4 NM Holding Pattern
GS 3.00° TCH 40				
CATEGORY	A	B	C	D
LPV DA	550-1¼ 350 (400-1¼)			
LNAV/VNAV DA	580-1¼ 380 (400-1¼)			
LNAV MDA	1060-1 860 (900-1)	1060-1½ 860 (900-1½)	1060-2½ 860 (900-2½)	1060-2¾ 860 (900-2¾)
CIRCLING	1060-1 860 (900-1)	1060-1½ 860 (900-1½)	1060-2½ 860 (900-2½)	1060-2¾ 860 (900-2¾)

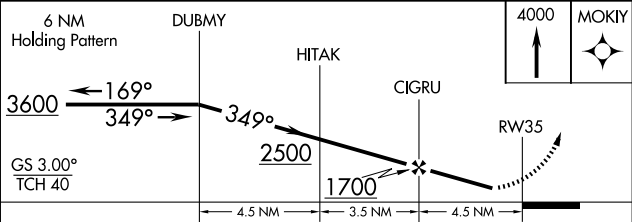
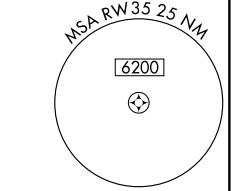
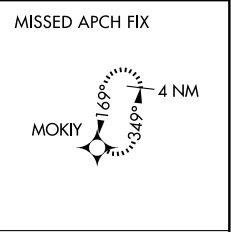
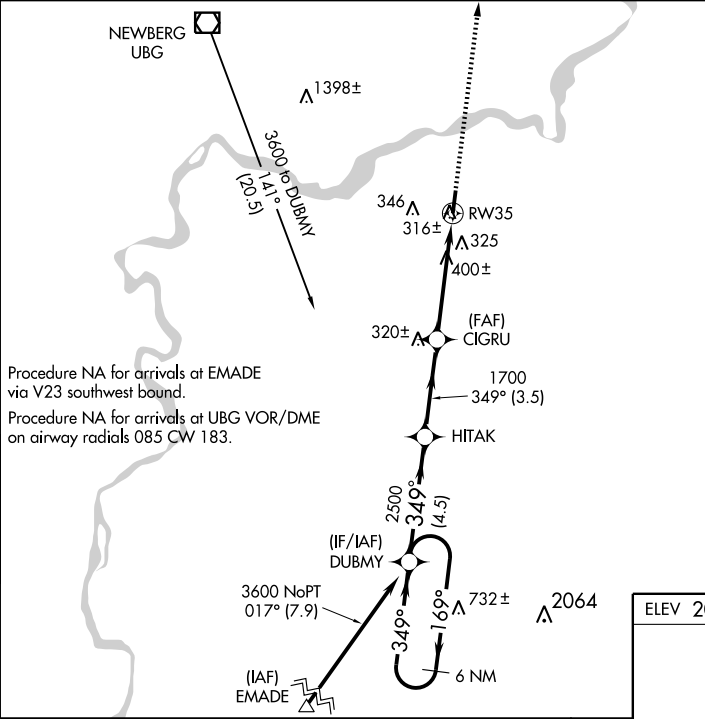
WAAS CH 77508 W35A	APP CRS 349°	Rwy Idg 5004 TDZE 199 Apt Elev 200
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RNAV (GPS) RWY 35
AURORA STATE (UO)

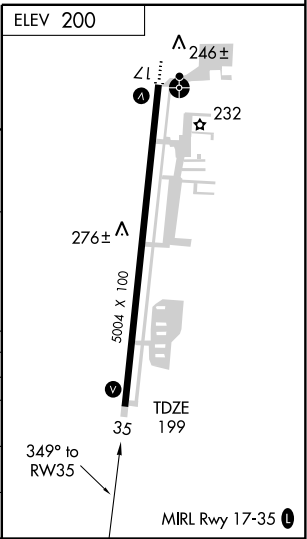
⚠ DME/DME RNP-0.3 NA. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 48°C (118°F). When local altimeter setting not received, use Mc Minnville Muni altimeter setting and increase all DA 42 feet and MDA 60 feet; increase LPV, LNAV/VNAV visibilities ¼ mile all Cats, increase LNAV Cat D visibility to 1½. Visibility reduction by helicopters NA. Baro-VNAV NA when using Mc Minnville Muni altimeter setting.

MISSED APPROACH: Climb to 4000 direct MOKIY and hold, continue climb-in-hold to 4000.

ASOS 118.525	PORTLAND APP CON 126.0 284.6	CLNC DEL 119.95	UNICOM 122.7 (CTAF) 0
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CATEGORY	A	B	C	D
LPV DA		500-1	301 (300-1)	
LNAV/VNAV DA		604-1½	405 (500-1½)	
LNAV MDA	700-1 501 (500-1)		700-1½ 501 (500-1½)	
CIRCLING	700-1 500 (500-1)		700-1½ 500 (500-1½)	760-2 560 (600-2)



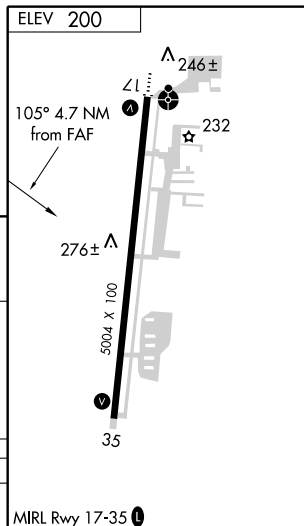
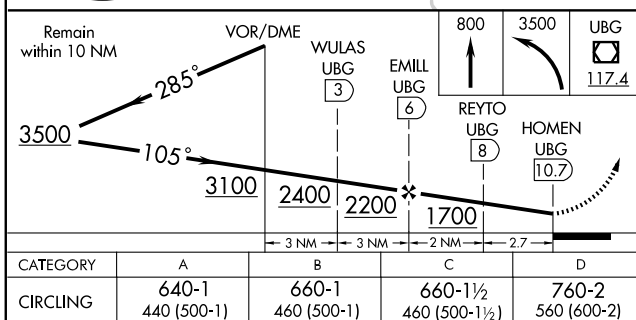
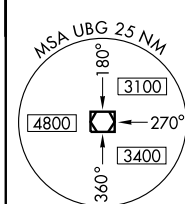
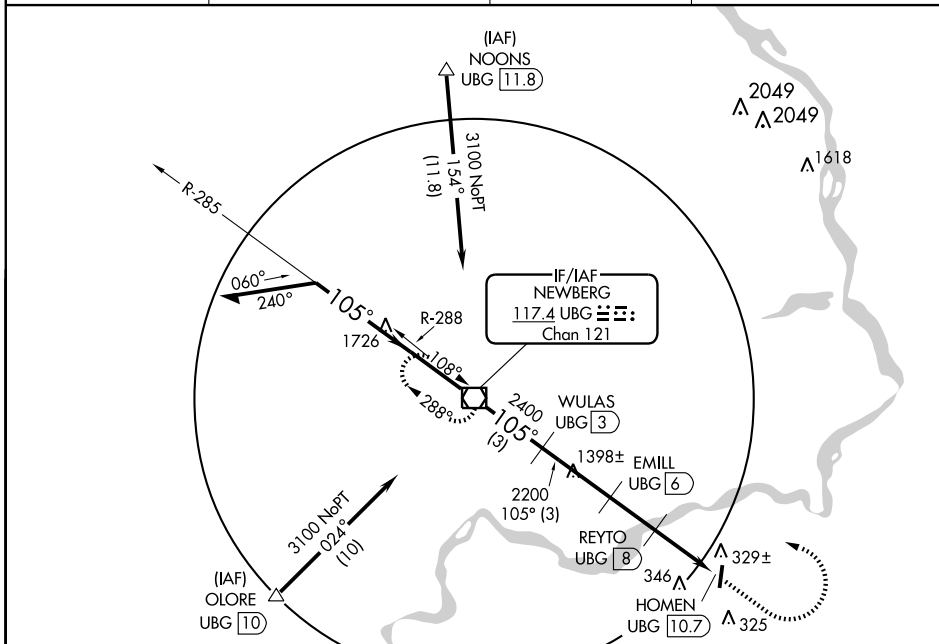
VOR/DME UBG 117.4 Chan 121	APP CRS 105°	Rwy Idg TDZE Apt Elev	N/A N/A 200
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VOR/DME-A
AURORA STATE (UAO)



MISSED APPROACH: Climb to 800 then climbing left turn to 3500 direct UBG VOR/DME and hold.

ASOS 118.525	PORTLAND APP CON 126.0 284.6	CLNC DEL 119.95	UNICOM 122.7 (CTAF) 0
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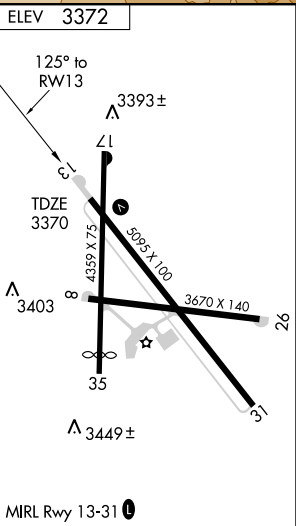
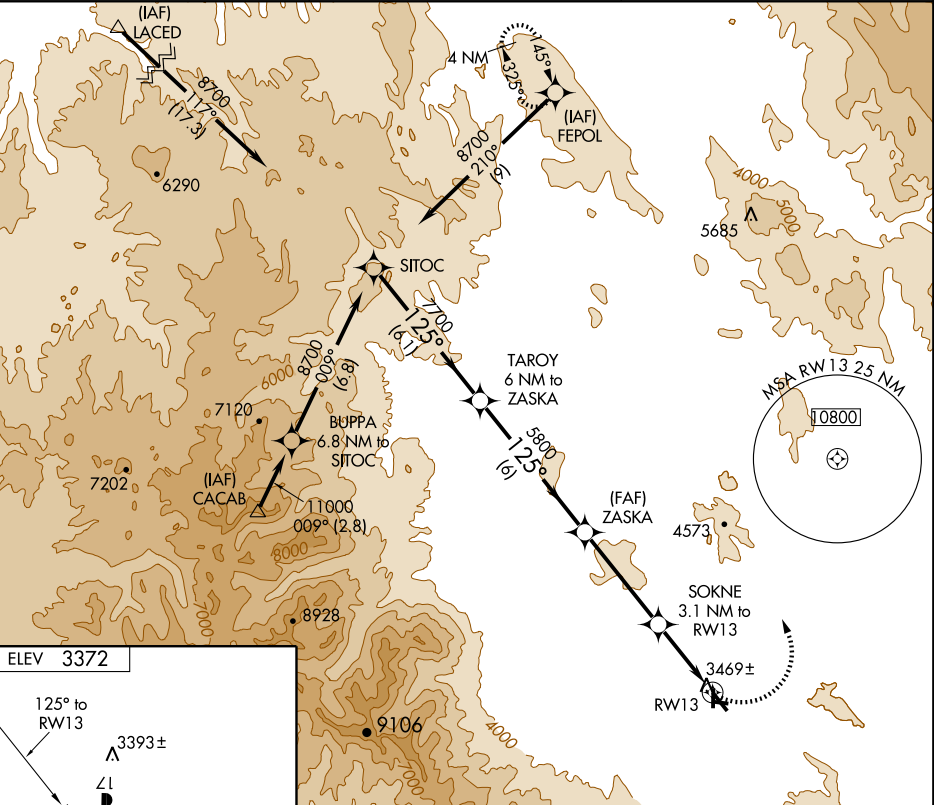


APP CRS	Rwy Idg	5095
125°	TDZE	3370
	Apt Elev	3372

RNAV (GPS) RWY 13
BAKER CITY MUNI (BKE)

	DME/DME RNP- 0.3 NA.	MISSED APPROACH: Climbing left turn to 9000 direct FEPOL and hold.
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ASOS 134.275	SALT LAKE CENTER 128.05 387.15	UNICOM 123.0 (CTAF) 
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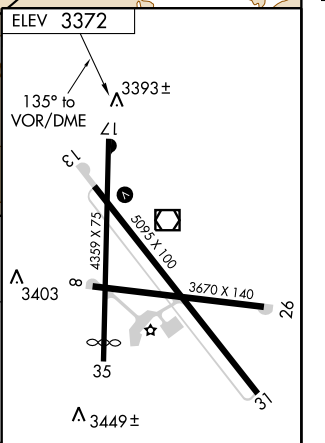
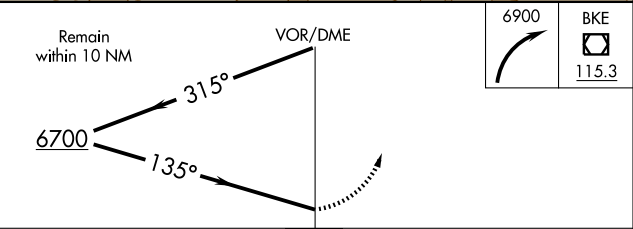
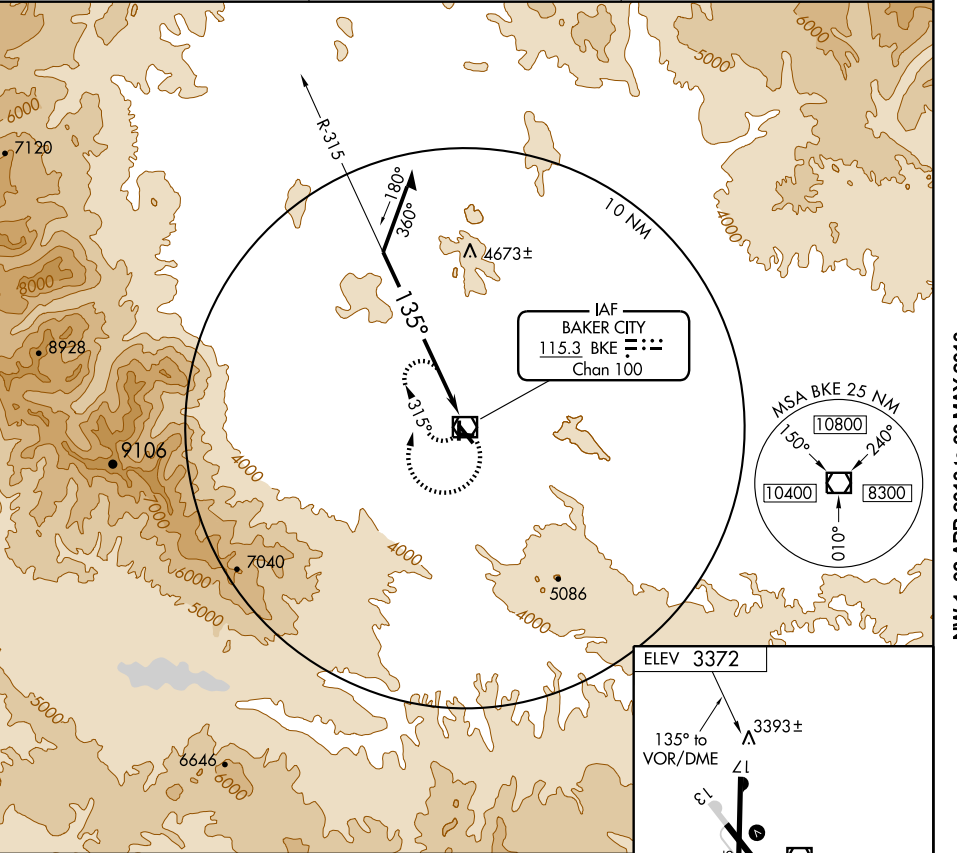
	SITOC	TAROY 6 NM to ZASKA	ZASKA	SOKNE 3.1 NM to RW13	9000	FEPOL
	8700	7700	5800	4420		
	Procedure Turn NA		3.06° TCH 55			
	6.1 NM	6 NM	4.2 NM	3.1 NM		
CATEGORY	A	B	C	D		
RNAV MDA	4080-1	710 (800-1)	4080-2 710 (800-2)	4080-2 1/4 710 (800-2 1/4)		
CIRCLING	4080-1	708 (800-1)	4080-2 708 (800-2)	4220-2 3/4 848 (900-2 3/4)		

▼

▲

MISSED APPROACH: Climbing right turn to 6900 in BKE VOR/DME holding pattern.

ASOS 134.275	SALT LAKE CENTER 128.05 387.15	UNICOM 123.0 (CTAF) 0
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CATEGORY	A	B	C	D
CIRCLING	5200-1¼ 1828 (1900-1¼)	5200-1½ 1828 (1900-1½)	5200-3 1828 (1900-3)	

MIRL Rwy 13-31 0

VOR/DME BKE 115.3 Chan 100	APP CRS 118°	Rwy Idg 5095 TDZE 3370 Apt Elev 3373
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VOR/DME RWY 13
BAKER CITY MUNI (BKE)

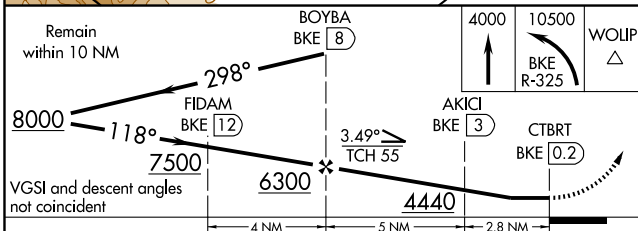
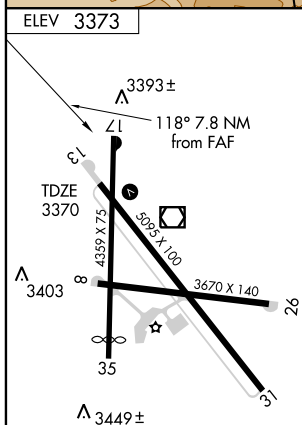
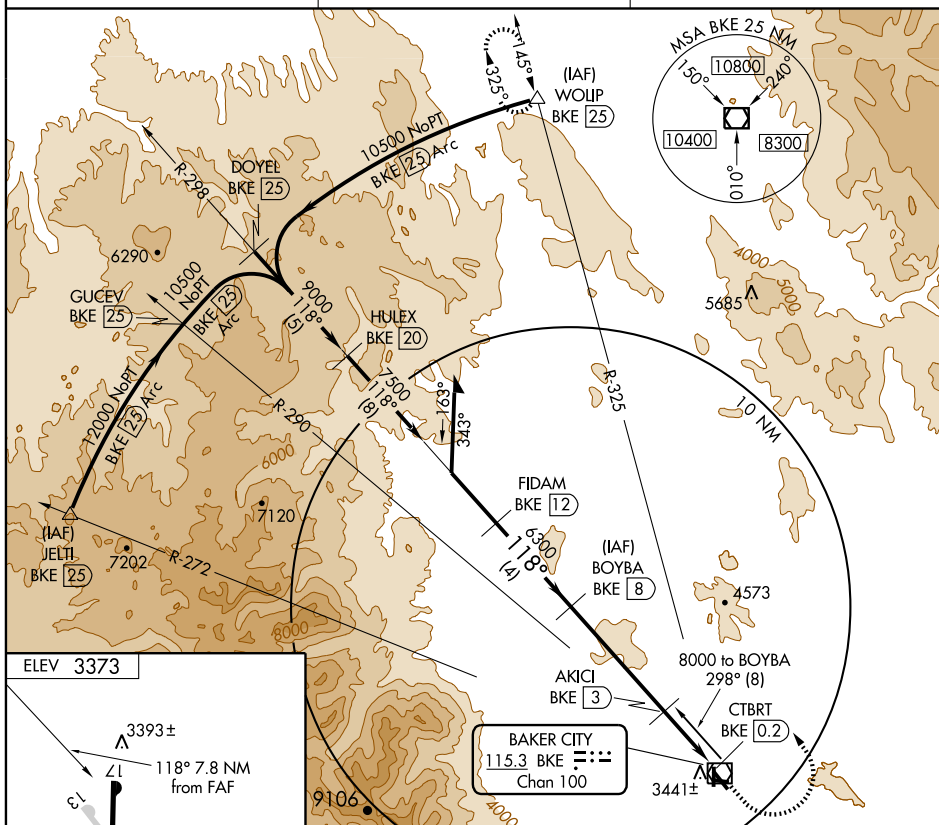


MISSED APPROACH: Climb to 4000 then climbing left turn to 10500 via BKE R-325 to WOLIP and hold.

ASOS
134.275

SALT LAKE CENTER
128.05 387.15

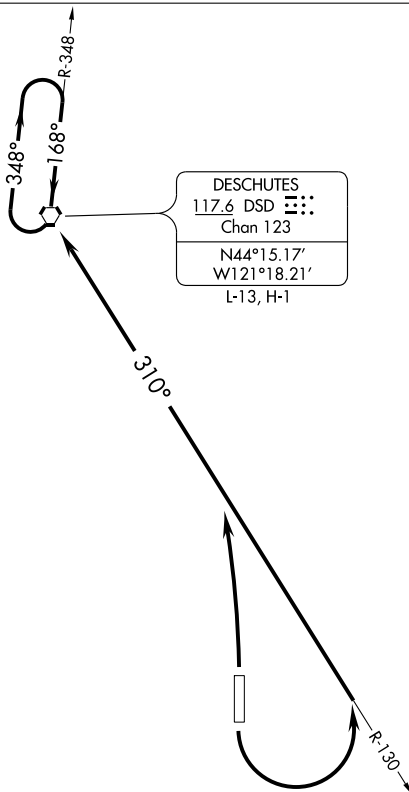
UNICOM
123.0 (CTAF)



CATEGORY	A	B	C	D
S-13	4000-1	630 (700-1)	4000-1 $\frac{3}{4}$ 630 (700-1 $\frac{3}{4}$)	4000-2 630 (700-2)
CIRCLING	4000-1 627 (700-1)	4000-1 627 (700-1)	4000-1 $\frac{3}{4}$ 627 (700-1 $\frac{3}{4}$)	4220-2 $\frac{3}{4}$ 847 (900-2 $\frac{3}{4}$)

BEND ONE DEPARTURE (OBSTACLE)

SEATTLE CENTER
128.15 257.75
CTAF 123.0

TAKE-OFF MINIMUMS

Rwys 16, 34: Standard.

TAKE-OFF OBSTACLE NOTES

- Rwy 16: Trees beginning 75' from DER, 412' left of centerline, up to 43' AGL/3572' MSL.
Trees beginning 432' from DER, 5' right of centerline, up to 37' AGL/3541' MSL.
Terrain beginning 27' from DER, 197' right of centerline, up to 3469' MSL.
Road 1' from DER, 414' left of centerline, 17' AGL/3466' MSL.
- Rwy 34: Trees beginning 306' from DER, 178' left of centerline, up to 25' AGL/3436' MSL.
Road beginning 460' from DER, 414' left of centerline, up to 17' AGL/3425' MSL.
Bush 94' from DER, 443' left of centerline, 4' AGL/3407' MSL.
Terrain beginning 1' from DER, 147' left of centerline, up to 3408' MSL.
Trees beginning 52' from DER, 252' right of centerline, up to 39' AGL/3429' MSL.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 16: Climbing left turn to intercept DSD R-130 to DSD VORTAC,
Thence

TAKE-OFF RUNWAY 34: Climbing left turn to intercept the DSD R-130 to DSD VORTAC,
Thence

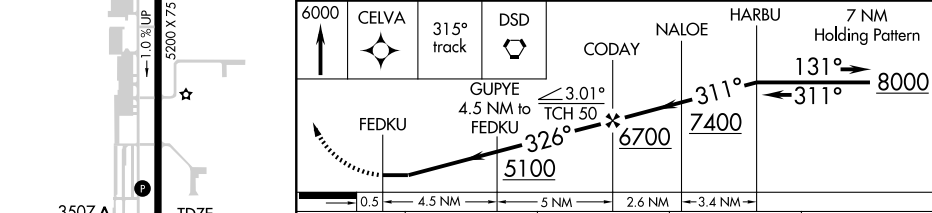
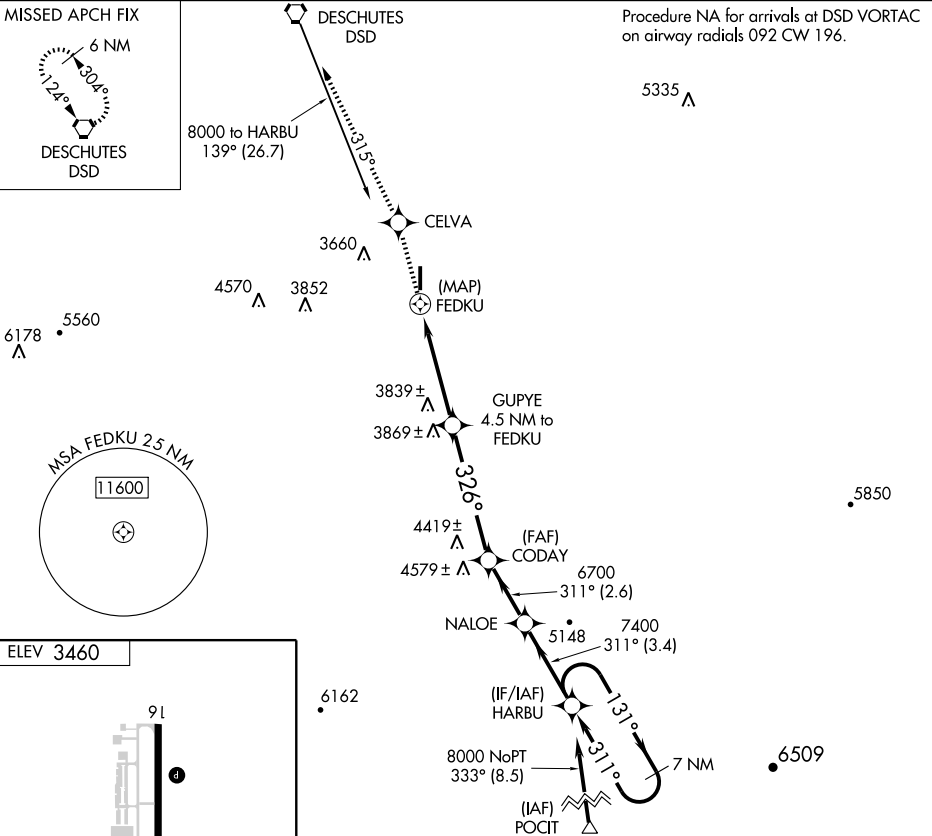
. . . . Climb in DSD VORTAC holding pattern to cross DSD VORTAC at or above the
MEA/MCA for the route of flight.

APP CRS 326°	Rwy Idg 5200 TDZE 3460 Apt Elev 3460
------------------------	--

RNAV (GPS) RWY 34
BEND MUNI (BDN)

 NA	DME/DME RNP- 0.3 NA. Visibility reduction by helicopters NA. When local altimeter setting not received, use Redmond altimeter setting and increase all MDAs 80 feet, LNAV Cats C/D visibility ¼ mile and Circling Cat C/D visibility ¼ mile.	MISSED APPROACH: Climb to 6000 direct CELVA and via 315° track to DESCHUTES VORTAC and hold
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AWOS-3 134.425	SEATTLE CENTER 128.15 257.75	UNICOM 123.0 (CTAF) 0
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CATEGORY	A	B	C	D
LNAV MDA	4100-1	640 (700-1)	4100-1¾ 640 (700-1¾)	4100-2 640 (700-2)
CIRCLING	4100-1	640 (700-1)	4100-1¾ 640 (700-1¾)	4100-2 640 (700-2)

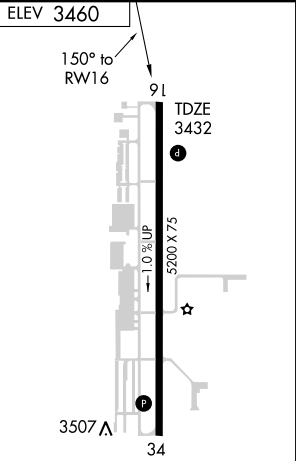
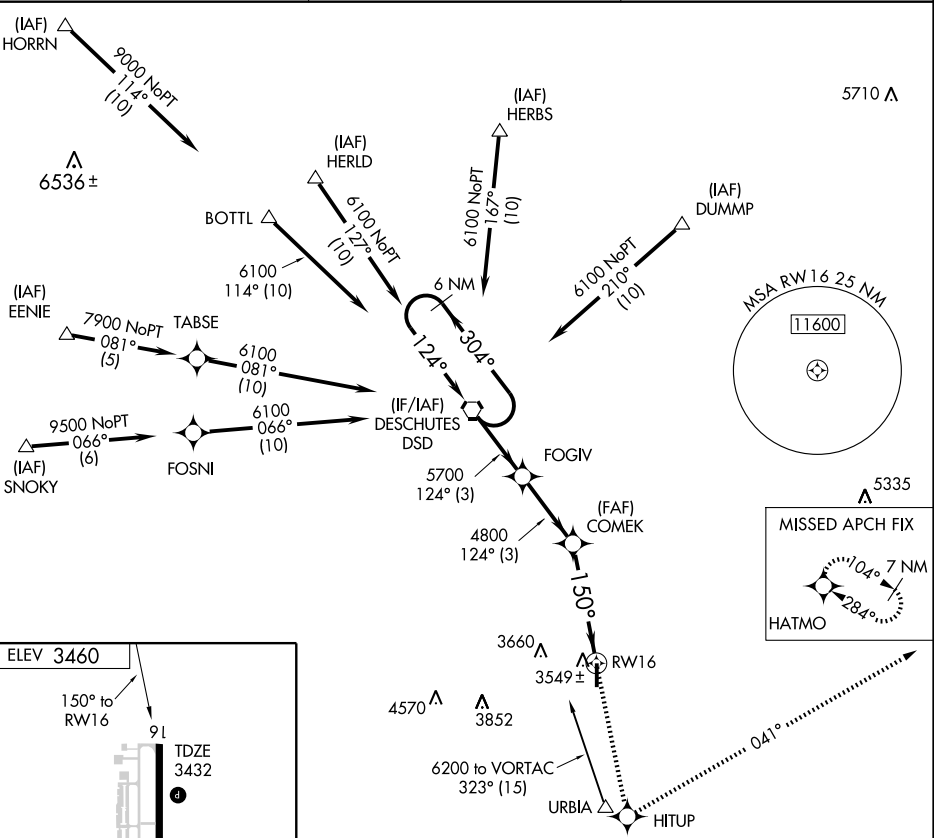
APP CRS	Rwy Idg	5200
150°	TDZE	3432
	Apt Elev	3460

RNAV (GPS) Y RWY 16

BEND MUNI (BDN)

<div><div>▼</div><div>NA</div></div> <div>DME/DME RNP -0.3 NA. Visibility reduction by helicopters NA. When local altimeter setting not received, use Redmond altimeter setting and increase all MDAs 80 feet, and LNAV Cats C/D visibility ¼ mile, and circling Cat C visibility ¼ mile.</div>	MISSED APPROACH: Climb to 7400 direct HITUP and left turn via 041° track to HATMO and hold, continue climb-in-hold to 7400.
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AWOS-3 134.425	SEATTLE CENTER 128.15 257.75	UNICOM 123.0 (CTAF)
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MIRL Rwy 16-34

CATEGORY	6 NM Holding Pattern		VORTAC		FOGIV		COMEK		7400	HITUP	HATMO
	304°		124°		124°		2.91° TCH 50		↑	041° track	
LNAV MDA	3800-1		368 (400-1)		3800-1½		368 (400-1½)				
CIRCLING	3940-1		3980-1		4000-1½		4040-2				
	480 (500-1)		520 (600-1)		540 (600-1½)		580 (600-2)				

WAAS CH 81906 W16A	APP CRS 161°	Rwy Idg TDZE Apt Elev	5200 3432 3460
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RNAV (GPS) Z RWY 16

BEND MUNI (BDN)

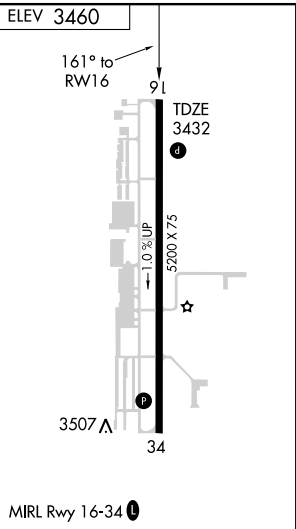
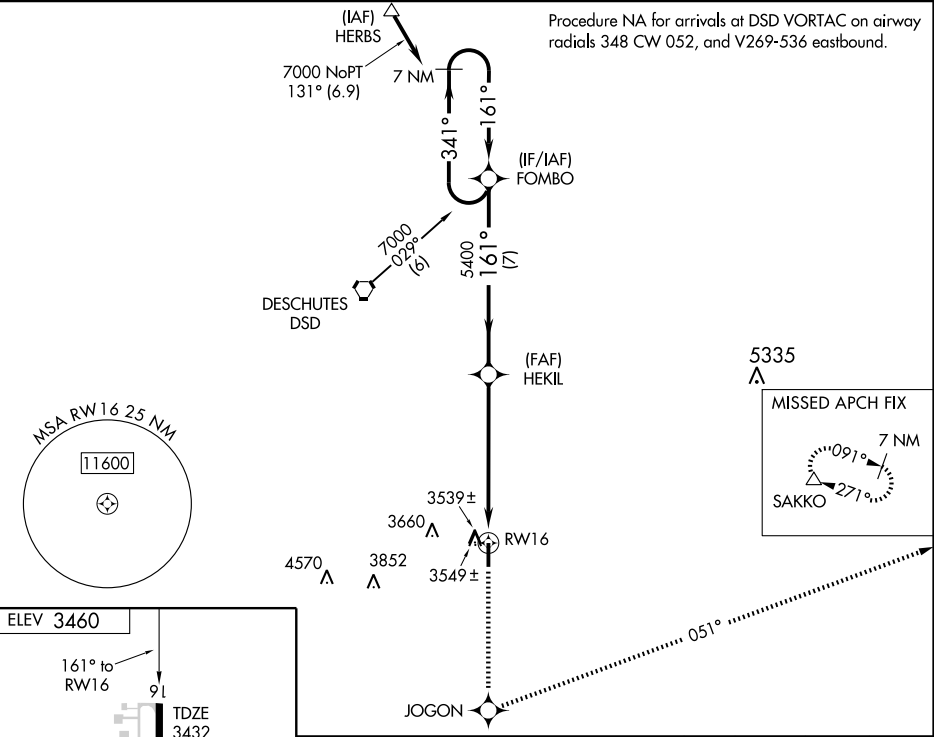
▼

▲NA

When local altimeter setting not received, use Redmond altimeter setting, and increase all DA/MDAs by 80 feet, LPV visibilities ¼ mile all Cats, LNAV/VNAV visibilities ¼ mile all Cats, LNAV Cat D visibility ¼ mile, and circling Cat C visibility ¼ mile. For uncompensated Baro-VNAV systems, procedure NA below -21°C (-5°F) or above 42°C (107°F). DME/DME RNP 0.3 NA. Visibility reduction by helicopters NA.

MISSED APPROACH: Climb to 9500 direct JOGON and left turn via 051° track to SAKKO and hold, continue climb-in-hold to 9500.

AWOS-3 134.425	SEATTLE CENTER 128.15 257.75	UNICOM 123.0 (CTAF) 0
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<div>7 NM Holding Pattern</div> <div>7000 ← 341° → 161° → 5400</div> <div>GS 3.00° TCH 50</div>					<div>FOMBO</div> <div>HEKIL</div> <div>9500</div> <div>JOGON</div> <div>051° track</div> <div>SAKKO</div>				
<div>7 NM</div> <div>4.8 NM</div> <div>1.2 NM</div>					<div>* 1.2 NM to RW16</div> <div>* LNAV only</div> <div>RW16</div>				
CATEGORY		A		B		C		D	
LPV DA		3682-1		250 (300-1)					
LNAV/VNAV DA		3809-1½		377 (400-1½)					
LNAV MDA		3840-1 408 (400-1)		3840-1¼ 408 (400-1¼)					
CIRCLING		3940-1 480 (500-1)		3980-1 520 (600-1)		4000-1½ 540 (600-1½)		4040-2 580 (600-2)	

VORTAC DSD 117.6 Chan 123	APP CRS 136°	Rwy Idg TDZE Apt Elev	5200 3432 3460
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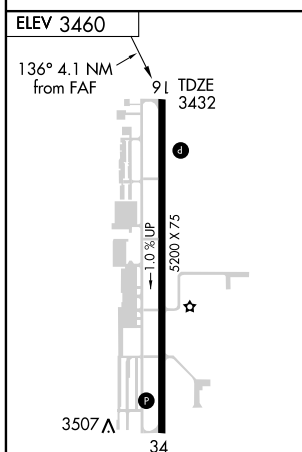
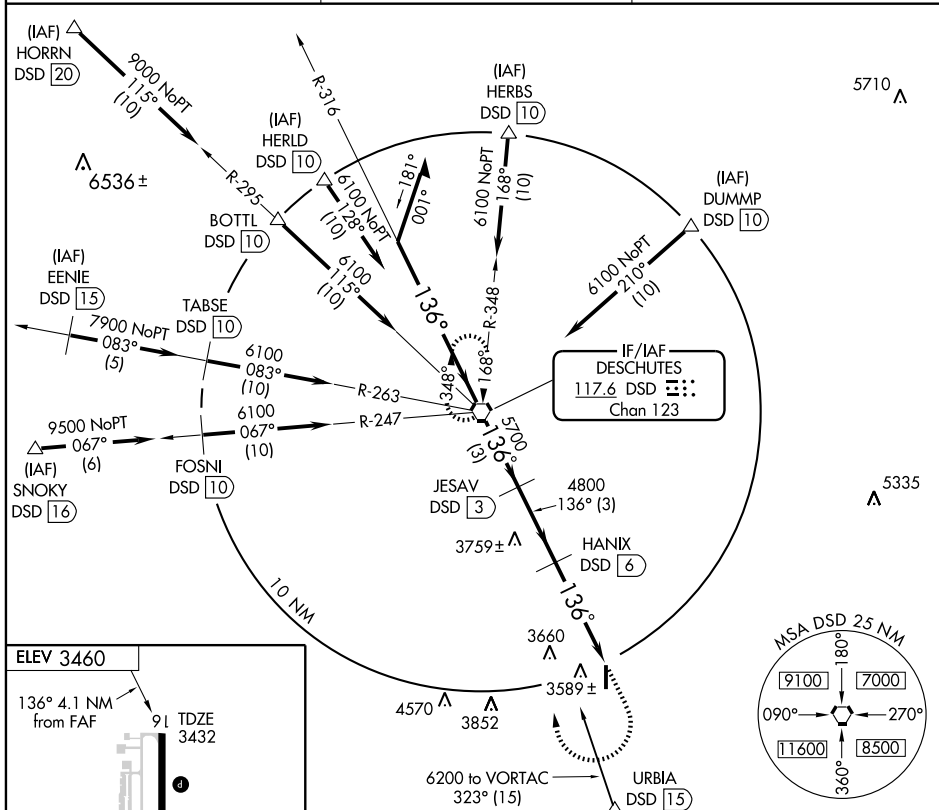
VOR/DME RWY 16

BEND MUNI (BDN)

NA When local altimeter setting not received, use Redmond altimeter setting and increase all MDAs 80 feet, increase S-16 Cat D visibility $\frac{1}{4}$ mile, and circling Cat C visibility $\frac{1}{4}$ mile. Visibility reduction by helicopters NA.

MISSED APPROACH: Climb to 4600 then climbing right turn to 7000 direct DSD VORTAC and hold.

AWOS-3 134.425	SEATTLE CENTER 128.15 257.75	UNICOM 123.0 (CTAF)
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VORTAC				
Remain within 10 NM				
<div> <div>6100</div> <div>316°</div> <div>136°</div> <div>6100</div> <div>136°</div> <div>5700</div> <div>4800</div> <div>3.09°</div> <div>TCH 50</div> <div>3 NM</div> <div>3 NM</div> <div>4.1 NM</div> </div>				
<div> <div>4600</div> <div>7000</div> <div>DSD</div> <div>117.6</div> <div>DSD 10.1</div> </div>				
CATEGORY	A	B	C	D
S-16	3840-1	408 (400-1)	3840-1 $\frac{1}{4}$	408 (400-1 $\frac{1}{4}$)
CIRCLING	3940-1 480 (500-1)	3980-1 520 (600-1)	4000-1 $\frac{1}{2}$ 540 (600-1 $\frac{1}{2}$)	4040-2 580 (600-2)

▼

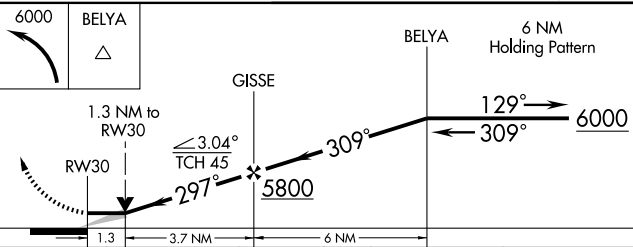
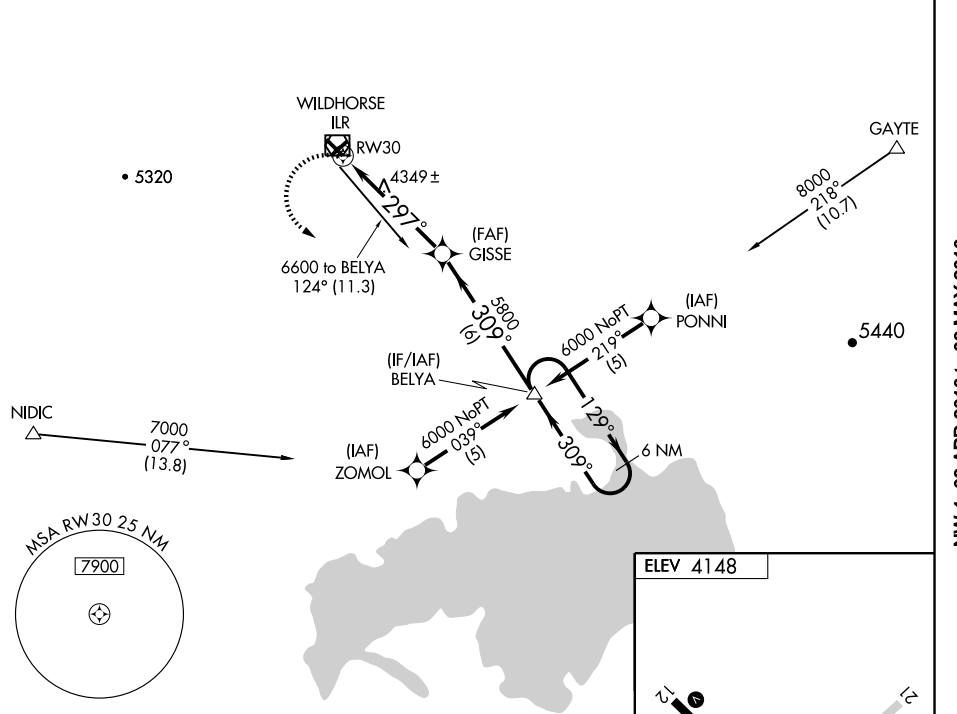
▲ NA

DME/DME RNP- 0.3 NA.

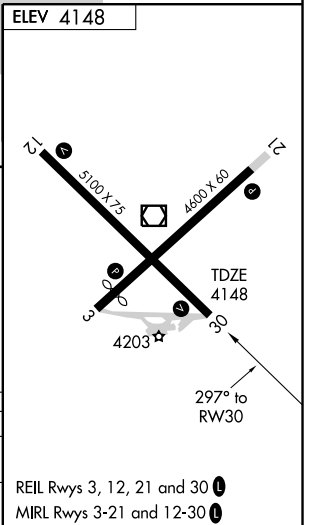
MISSED APPROACH: Climbing left turn to 6000 direct BELYA and hold.

ASOS 135.575	MC MINNVILLE RADIO 122.5	UNICOM 122.8 (CTAF) 0
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Procedure NA for arrival at NIDIC via V357 southwestbound.
Procedure NA for arrival at GAYTE via V330 eastbound.
NoPT for arrival at ILR VOR/DME via V497 northwestbound.




CATEGORY	A	B	C	D
LNNAV MDA	4600-1	452 (500-1)	4600-1½ 452 (500-1½)	4600-1½ 452 (500-1½)
CIRCLING	4600-1 452 (500-1)	4680-1 532 (600-1)	4680-1½ 532 (600-1½)	4720-2 572 (600-2)

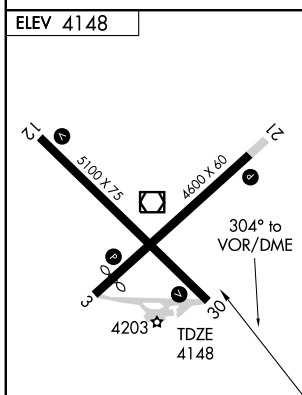
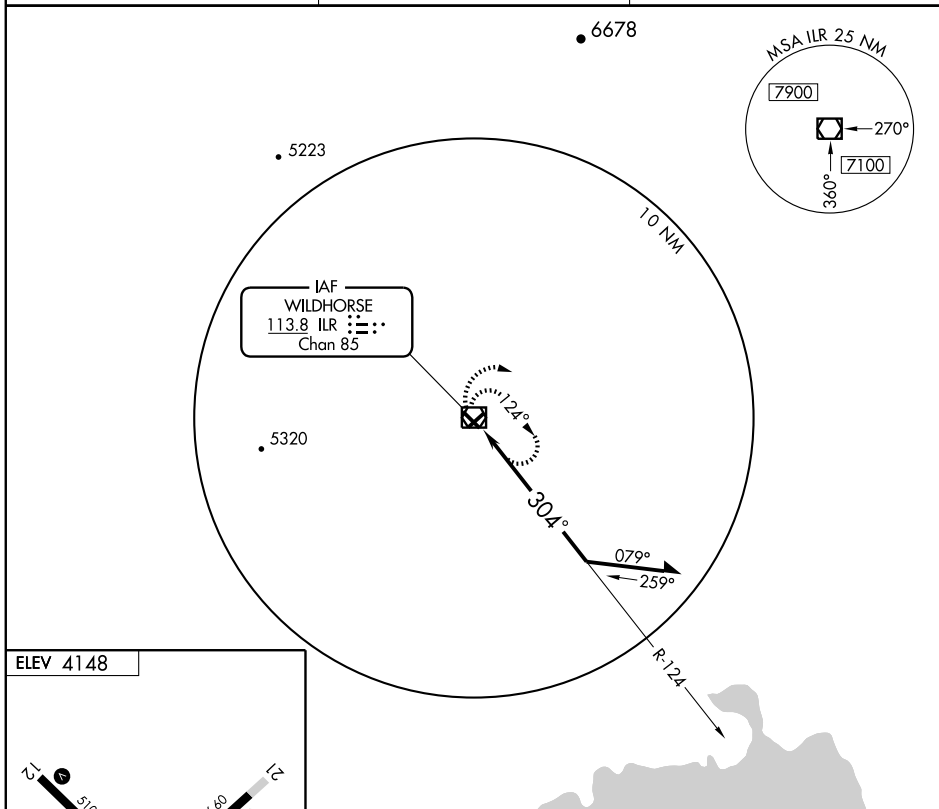


REIL Rwy 3, 12, 21 and 30 0
MIRL Rwy 3-21 and 12-30 0

VOR/DME ILR 113.8 Chan 85	APP CRS 304°	Rwy Idg 5100 TDZE 4148 Apt Elev 4148
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VOR RWY 30
BURNS MUNI (BNO)

		MISSED APPROACH: Climbing right turn to 8000 in ILR VOR/DME holding pattern.	
ASOS 135.575	MC MINNVILLE RADIO 122.5	UNICOM 122.8 (CTAF) 0	



VOR/DME

ILR
4.5

0.4

4.1 NM

124°

304°

7000


Remain within 10 NM

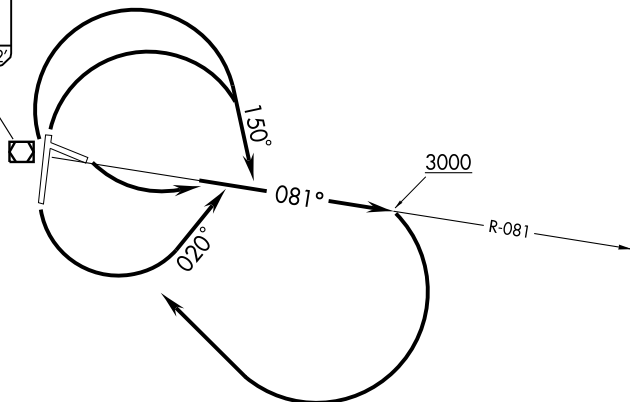
CATEGORY	A	B	C	D
S-30	5500-1¼ 1352 (1400-1¼)	5500-1½ 1352 (1400-1½)	5500-3	1352 (1400-3)
CIRCLING	5500-1¼ 1352 (1400-1¼)	5500-1½ 1352 (1400-1½)	5500-3	1352 (1400-3)

REIL Rwy's 3, 12, 21 and 30 **L**MIRL Rwy 3-21 and 12-30 **L**

CORVALLIS ONE DEPARTURE

AWOS-3 135.775
 CASCADE DEP CON ★
 127.5 348.7
 CTAF 123.0
 SEATTLE CENTER
 125.8

CORVALLIS
 115.4 CVO 
 Chan 101
 N44°29.97'-W123°17.62'



TAKEOFF MINIMUMS

Rwy 9, 200-1 or standard with minimum climb of 245' per NM to 500.

Rwys 17/35, standard.

Rwy 27, standard with minimum climb of 310' per NM to 2300.

TAKEOFF OBSTACLE NOTES

Rwy 9: Multiple trees and railroad beginning 549' from DER, 254' left of centerline, up to 153' AGL/383' MSL.

Multiple trees and railroad beginning 670' from DER, 5' right of centerline, up to 135' AGL/380' MSL.

Rwy 27: OL on GS 409' from DER, 325' left of centerline, 28' AGL/273' MSL.

Rwy 35: Multiple trees beginning 470' from DER, 544' left of centerline, up to 36' AGL/276' MSL.

Tree 2.3 NM from DER, 1976' left of centerline, 128' AGL/607' MSL.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 9: Climbing left turn to 3000 via CVO R-081, thence. . .

TAKE-OFF RUNWAY 17: Climbing left turn to 3000 via heading 020° and CVO R-081, thence. . .

TAKE-OFF RUNWAYS 27 and 35: Climbing right turn to 3000 via heading 150° and CVO R-081, thence. . .

.... climbing right turn to 4000 direct CVO VOR/DME. Continue climb on course to MEA for route of flight.

LOST COMMUNICATIONS: If not in contact with ATC upon reaching 3000', continue climb to assigned altitude direct CVO VOR/DME. Thence via assigned route of flight.

LOC I-CVO	APP CRS	Rwy Idg	5900
111.9	169°	TDZE	244
		Apt Elev	246

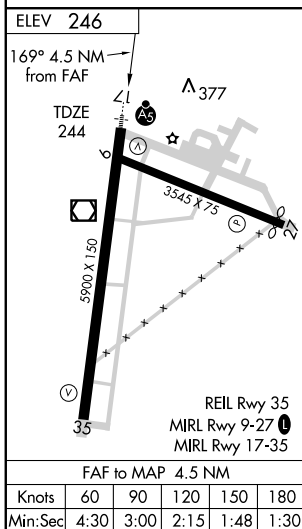
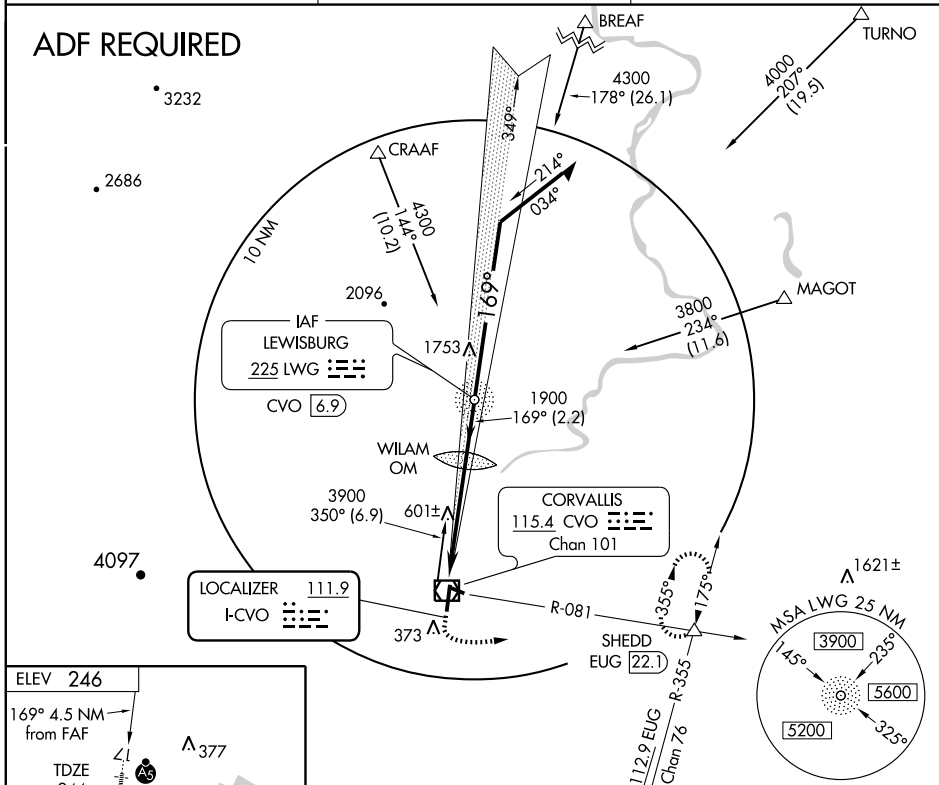
ILS RWY 17 CORVALLIS MUNI (CVO)



MISSED APPROACH: Climb to 900 then climbing left turn to 3000 via the CVO R-081 to SHEDD Int and hold.

AWOS-3 135.775	CASCADE APP CON* 127.5 348.7	UNICOM 123.0 (CTAF) 0
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ADF REQUIRED



900	3000	SHEDD	LWG NDB	Remain within 10 NM
CVO R-081	CVO R-081	SHEDD	CVO 6.9	
1900*	2500*	3300	3700	GS 3.00° TCH 45
4.5 NM	2.2 NM			
CATEGORY	A	B	C	D
S-ILS 17	444-1/2 200 (200-1/2)			
S-LOC 17	860-1/2 616 (700-1/2)		860-1/4 616 (700-1/4)	860-1/2 616 (700-1/2)
CIRCLING	860-1 614 (700-1)		860-1/4 614 (700-1/4)	880-2 634 (700-2)

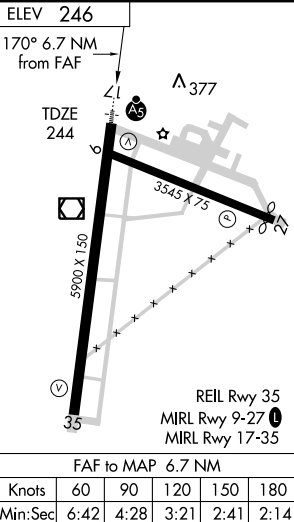
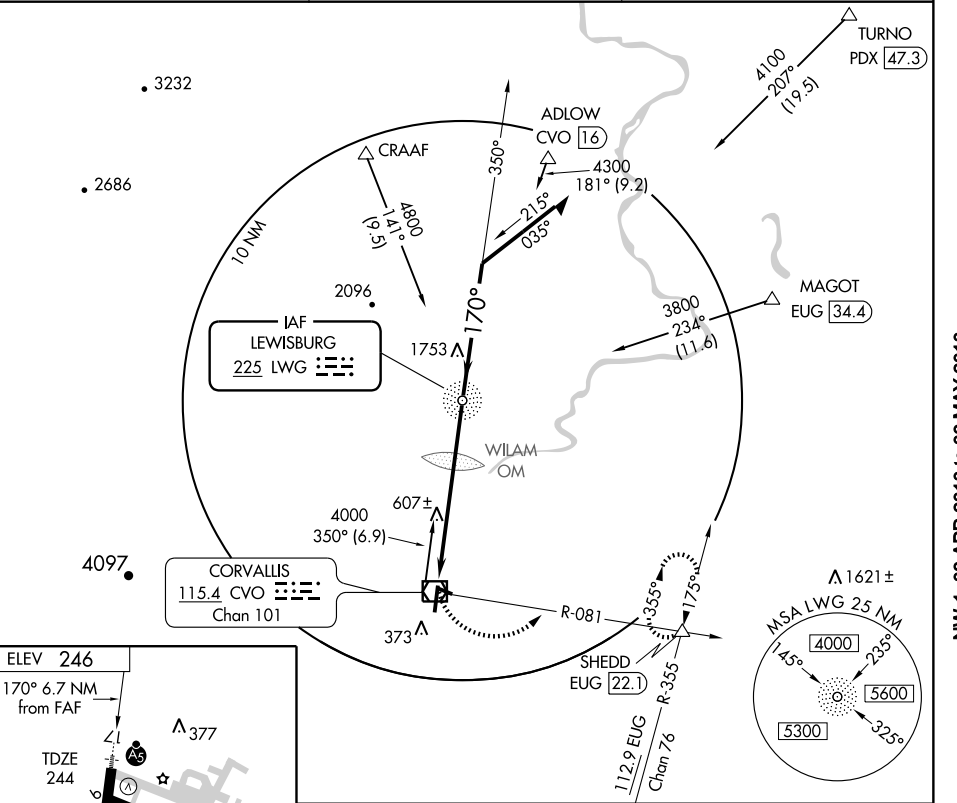
▼

▲ NA

MALSR

MISSED APPROACH: Climbing left turn to 3000 via the CVO R-081 to SHEDD Int/EUG 22.1 DME and hold.

AWOS-3 135.775	CASCADE APP CON ★ 127.5 348.7	UNICOM 123.0 (CTAF) 0
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3000 CVO R-081		SHEDD △	NDB		Remain within 10 NM
3700		3700	2500		
CVO 0.2		≤ 3.12° TCH 50	6.7 NM		
CATEGORY	A	B	C	D	
S-17	960-¾ 716 (800-¾)		960-1½ 716 (800-1½)	960-2 716 (800-2)	
CIRCLING	960-1 714 (800-1)		960-2 714 (800-2)	960-2¼ 714 (800-2¼)	

WAAS CH 78311 W17A	APP CRS 169°	Rwy Idg 5900 TDZE 248 Apt Elev 250
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RNAV (GPS) RWY 17
CORVALLIS MUNI (CVO)

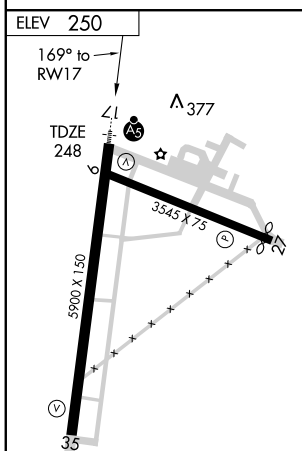
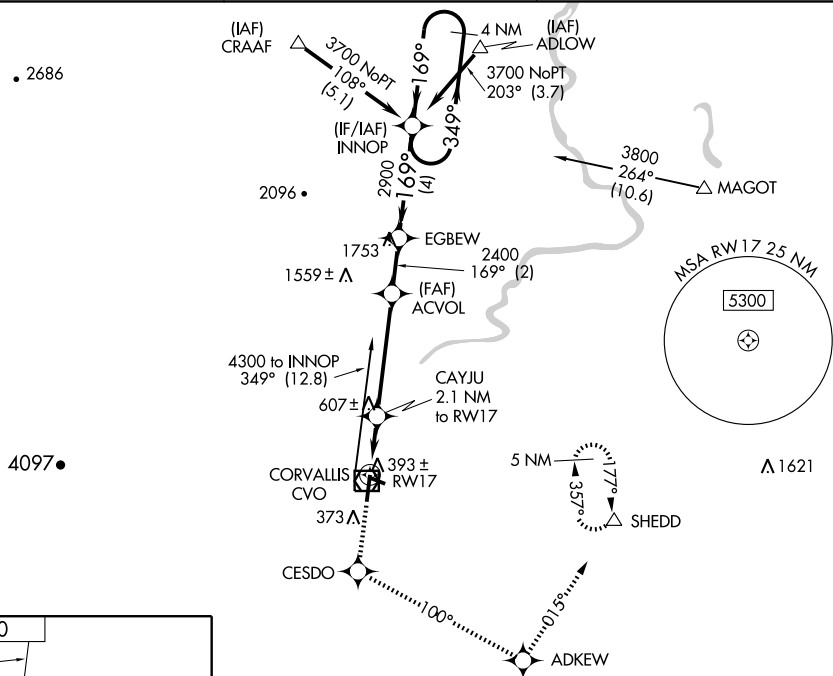
T For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 48°C (118°F). DME/DME RNP -0.3 NA. Visibility reduction by helicopters NA. Inoperative table does not apply to LNAV Cats A and B. For inoperative MALSR increase LNAV Cats C and D visibility to 1¼.

MALSR



MISSED APPROACH: Climb to 3000
direct CESDO and via 100° track to
ADKEW and via 015° track to SHEDD
and hold.

AWOS-3 135.775	CASCADE APP CON ★ 127.5 348.7	UNICOM 123.0 (CTAF) ①
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3000 ↑	CESDO ✧	100° track	ADKEW ✧	015° track	SHEDD △	VGSI and RNAV glidepath not coincident. 4 NM Holding Pattern	
* LNAV only		CAYJU 2.1 NM to RW17	ACVOL	EGBEW	INNOP	169° → 3700 ← 169° 349° →	
RW17		960*	2400	2900	GS 3.00° TCH 45		
2.1		4.4 NM	2 NM	4 NM			
CATEGORY	A	B	C	D			
LPV DA		582-1	334 (400-1)				
LNAV/ VNAV	DA	670-1	422 (500-1)				
LNAV MDA		660-1	412 (500-1)				
CIRCLING	720-1 470 (500-1)	720-1½ 470 (500-1½)	900-2 650 (700-2)				

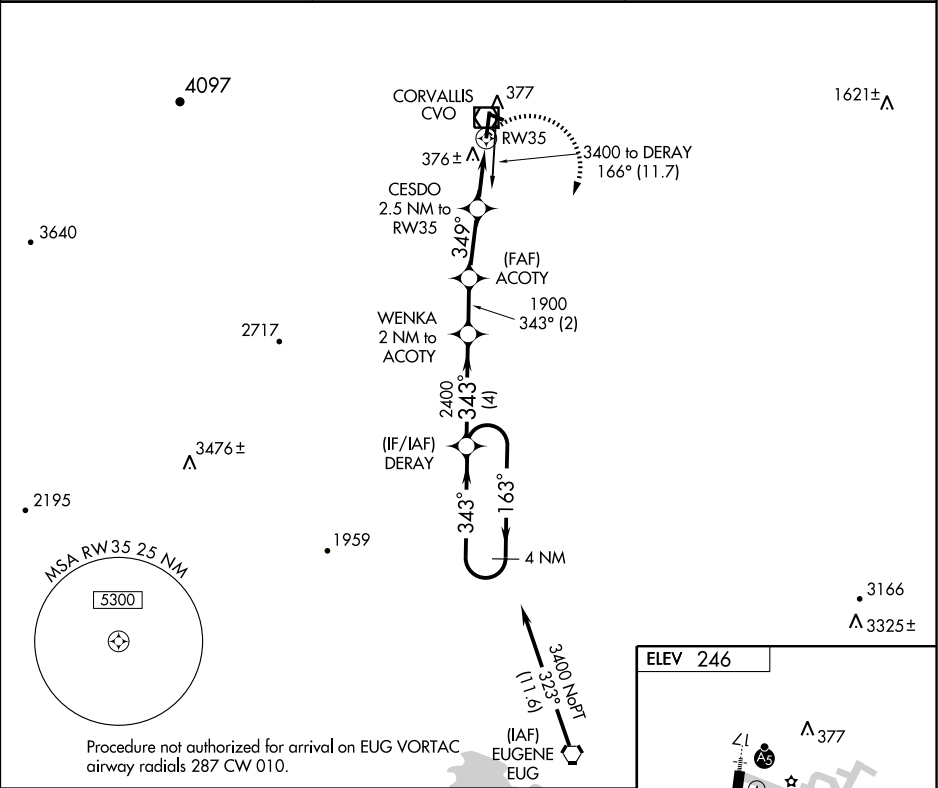
REIL Rwy 35
MIRL Rwy 9-27 **L**
MIRL Rwy 17-35

APP CRS	Rwy Idg	5900
349°	TDZE	246
	Apt Elev	246

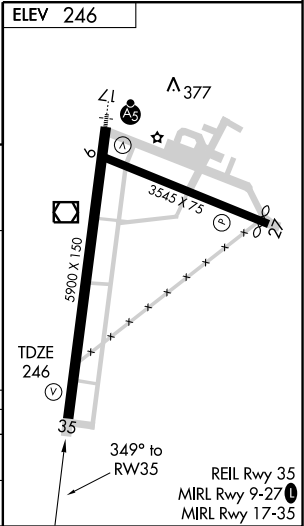
RNAV (GPS) RWY 35
CORVALLIS MUNI (CVO)

NA	GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.	MISSED APPROACH: Climbing right turn to 3400 direct DERAY WP and hold.
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
AWOS-3 135.775	CASCADE APP CON ★ 127.5 348.7	UNICOM 123.0 (CTAF) 0
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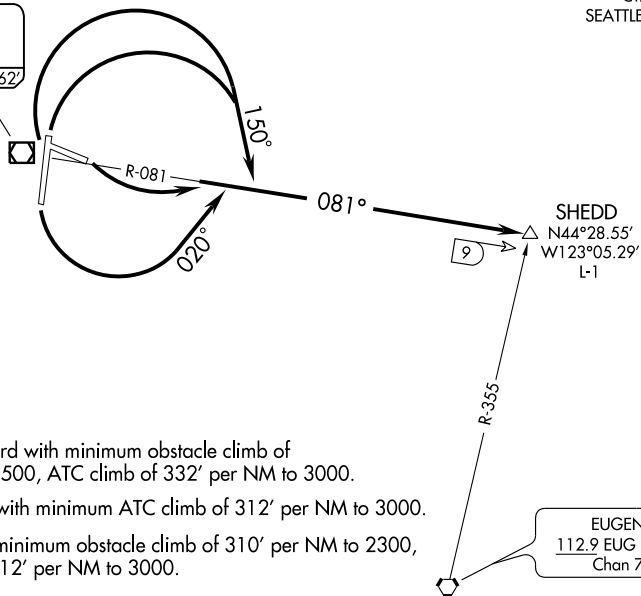


CATEGORY	A		B	
LNAV MDA	660-1 414 (500-1)		660-1½ 414 (500-1½)	
CIRCLING	720-1 474 (500-1)		720-1½ 474 (500-1½) 840-2 594 (600-2)	



SHEDD ONE DEPARTURE

CORVALLIS
115.4 CVO 
Chan 101
N44°29.97'-W123°17.62'

TAKEOFF MINIMUMS

- Rwy 9, 200-1 or standard with minimum obstacle climb of 245' per NM to 500, ATC climb of 332' per NM to 3000.
- Rwys 17/35, standard with minimum ATC climb of 312' per NM to 3000.
- Rwy 27, standard with minimum obstacle climb of 310' per NM to 2300, ATC climb of 312' per NM to 3000.

TAKEOFF OBSTACLE NOTES

- Rwy 9: Multiple trees and railroad beginning 549' from DER, 254' left of centerline, up to 153' AGL/383' MSL.
Multiple trees and railroad beginning 670' from DER, 5' right of centerline, up to 135' AGL/380' MSL.
- Rwy 27: OL on GS 409' from DER, 325' left of centerline, 28' AGL/273' MSL.
- Rwy 35: Multiple trees beginning 470' from DER, 544' left of centerline, up to 36' AGL/276' MSL.
Tree 2.3 NM from DER, 1976' left of centerline, 128' AGL/607' MSL.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 9: Climbing left turn to 3000 via CVO R-081 to SHEDD INT, thence. . .

TAKE-OFF RUNWAY 17: Climbing left turn to 3000 via heading 020° and CVO R-081 to SHEDD INT, thence. . .

TAKE-OFF RUNWAYS 27 and 35: Climbing right turn to 3000 via heading 150° and CVO R-081 to SHEDD INT, thence. . .

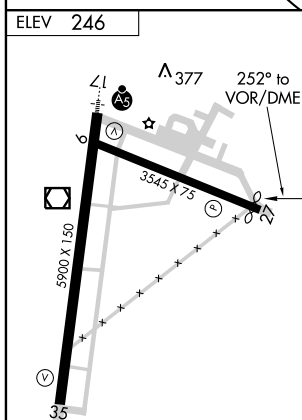
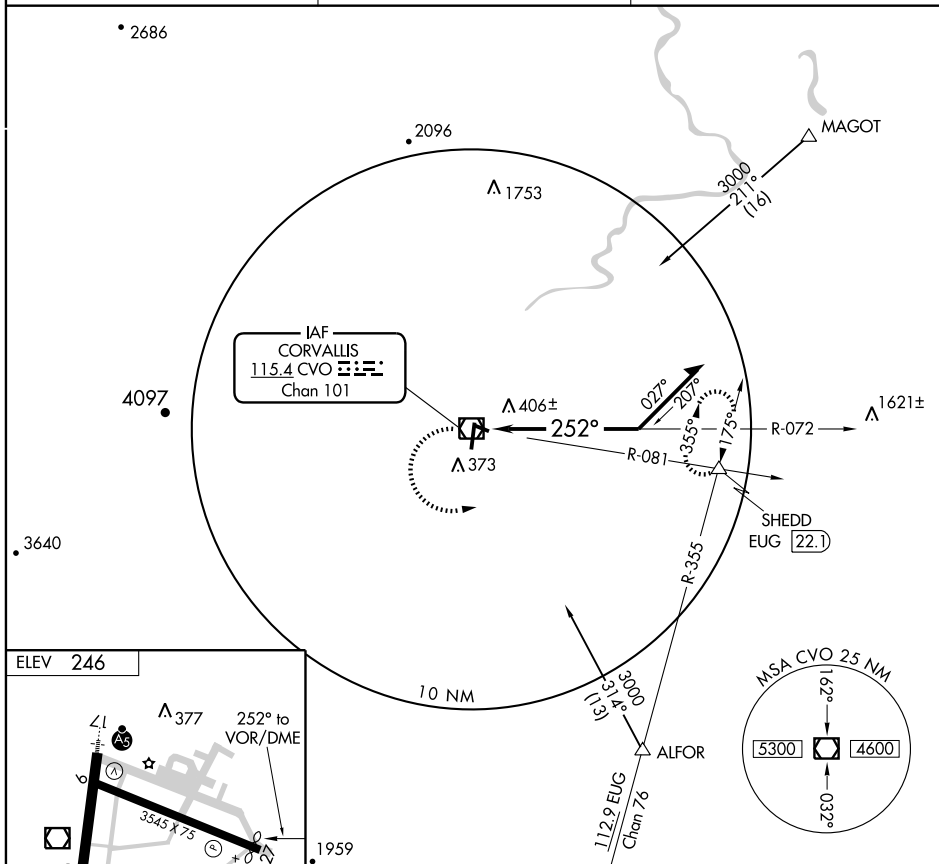
. . . via assigned route/clearance.

LOST COMMUNICATIONS: If not in contact with ATC upon reaching 3000', continue climb to assigned altitude direct CVO VOR/DME. Thence via assigned route of flight.

VOR-A
CORVALLIS MUNI (CVO)

MISSED APPROACH: Climbing left turn to 3000 via CVO
VOR/DME R-081 to SHEDD Int/EUG 22.1 DME and hold.

CASCADE APP CON★
127.5 348.7

UNICOM
123.0 (CTAF) **L**

REIL Rwy 35
MIRL Rwy 9-27 **L**
MIRL Rwy 17-35

<div>3000</div> <div></div> <div>SHEDD △</div>	<div>VOR/DME</div> <div></div>			
CATEGORY	A	B	C	D
CIRCLING	1400-1¼ 1154 (1200-1¼)	1400-1½ 1154 (1200-1½)	1400-3	1154 (1200-3)

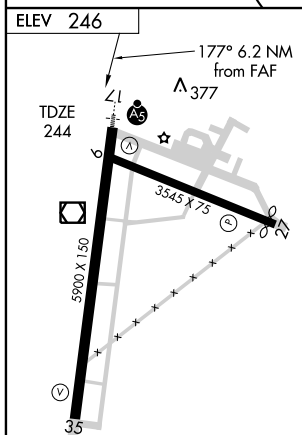
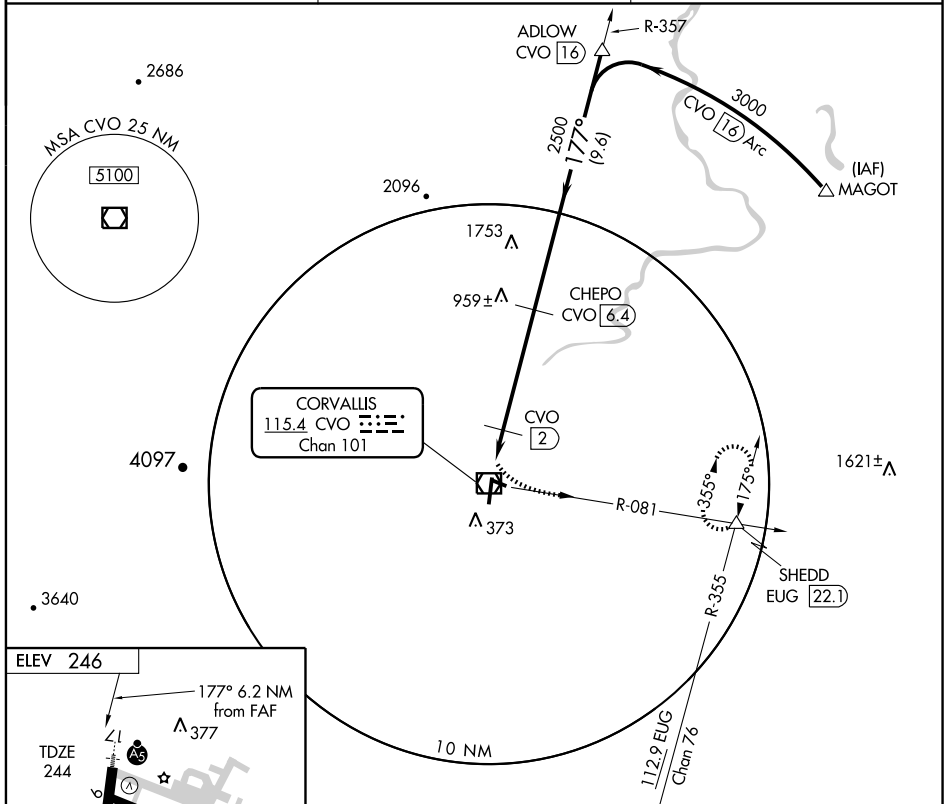
VOR/DME CVO	APP CRS	Rwy Idg	5900
115.4	177°	TDZE	244
Chan 101		Apt Elev	246

VOR/DME RWY 17

CORVALLIS MUNI (CVO)

<p>▼ For inoperative MALS, increase S-17 Cat. D to 1 1/4 mile.</p>	<p>MALS</p>	<p>MISSED APPROACH: Climbing left turn to 3000 via CVO R-081 to SHEDD Int and hold.</p>
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AWOS-3 135.775	CASCADE APP CON * 127.5 348.7	UNICOM 123.0 (CTAF) 0
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REIL Rwy 35
MIRL Rwy 9-27 0
MIRL Rwy 17-35

	3000 CVO R-081	SHEDD △	CHEPO CVO 6.4	ADLOW CVO 16	
				3000	
	VOR/DME CVO 0.5	CVO 2	2500	177°	Procedure Turn NA
	0.3	1.5 NM	4.4 NM	9.6 NM	
CATEGORY	A	B	C	D	
S-17	660-1/2	416 (500-1/2)	660-3/4 416 (500-3/4)	660-1 416 (500-1)	
CIRCLING	720-1	474 (500-1)	720-1 1/2 474 (500-1 1/2)	880-2 634 (700-2)	

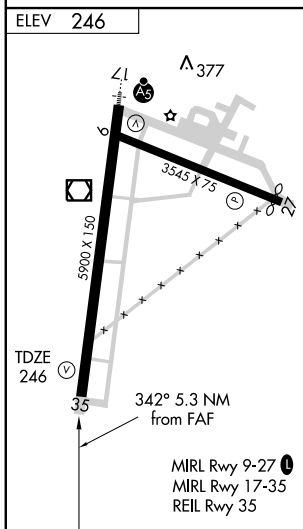
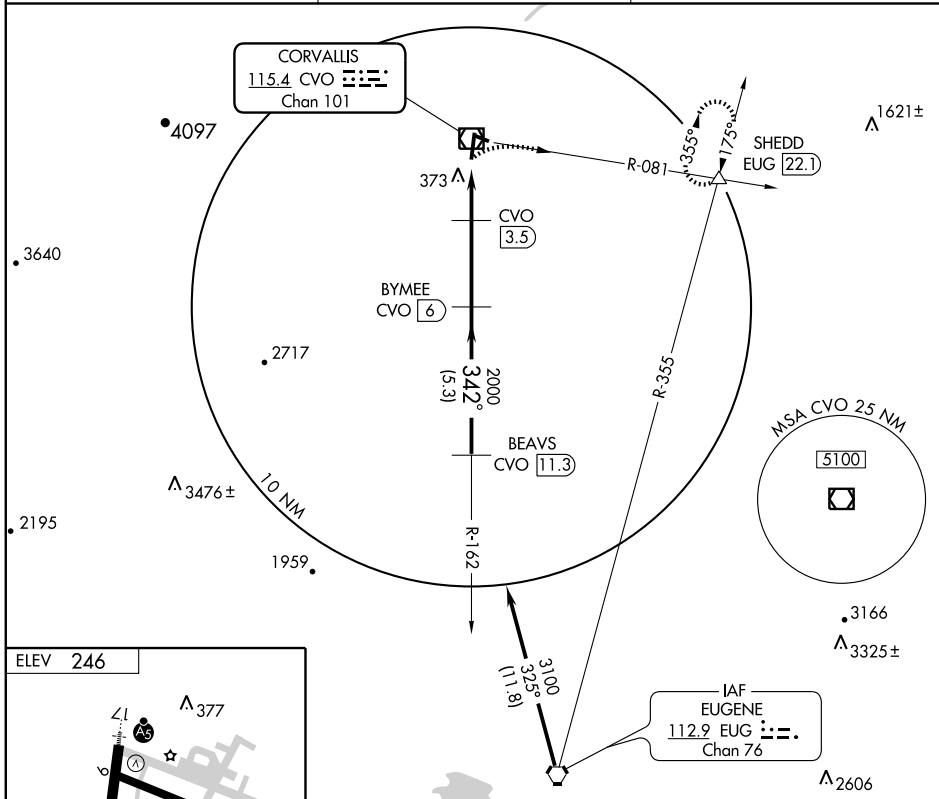
VOR/DME CVO	APP CRS	Rwy Idg	5900
115.4	342°	TDZE	246
Chan 101		Apt Elev	246

VOR/DME RWY 35

CORVALLIS MUNI (CVO)

<p>AWOS-3 135.775</p>		<p>CASCADE APP CON * 127.5 348.7</p>	<p>UNICOM 123.0 (CTAF) 0</p>
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MISSED APPROACH: Climbing right turn to 3000 via CVO R-081 to SHEDD Int and hold.

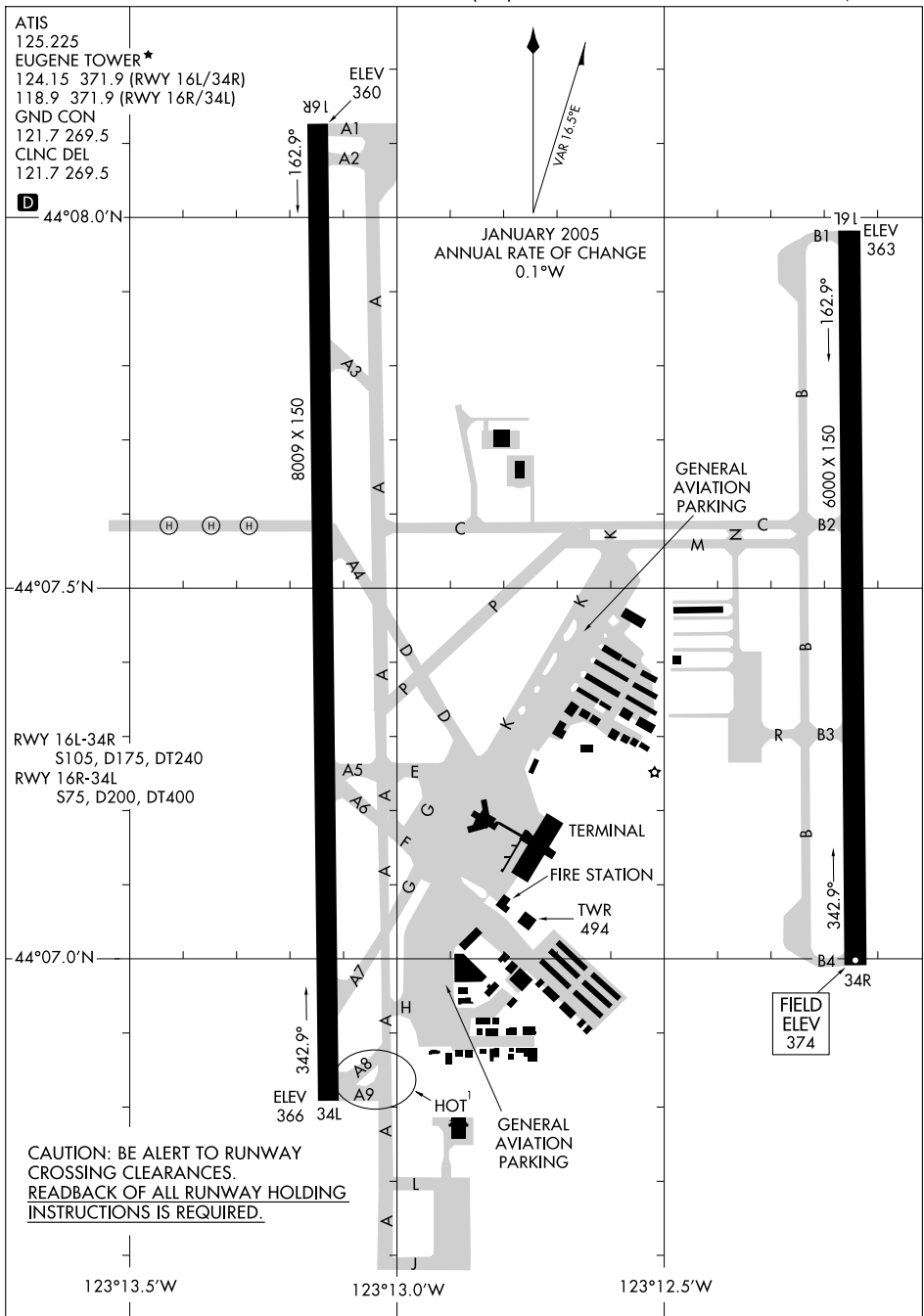


<p>3000 CVO R-081</p>		<p>SHEDD △</p>		<p>BEAVS CVO [11.3]</p>	
<p>VOR/DME CVO [0.7]</p>		<p>CVO [3.5]</p>		<p>BYMEE CVO [6]</p>	
<p>342° 5.3 NM from FAF</p>		<p>342° 3100</p>		<p>Procedure Turn NA</p>	
<p>2.8 NM</p>		<p>2.5 NM</p>		<p>5.3 NM</p>	
CATEGORY	A	B	C	D	
S-35	640-1 394 (400-1)			640-1¼ 394 (400-1¼)	
CIRCLING	720-1 474 (500-1)			720-1½ 474 (500-1½)	
				880-2 634 (700-2)	

AIRPORT DIAGRAM

AL-140 (FAA)

EUGENE/MAHLON SWEET FIELD (EUG)
EUGENE, OREGON



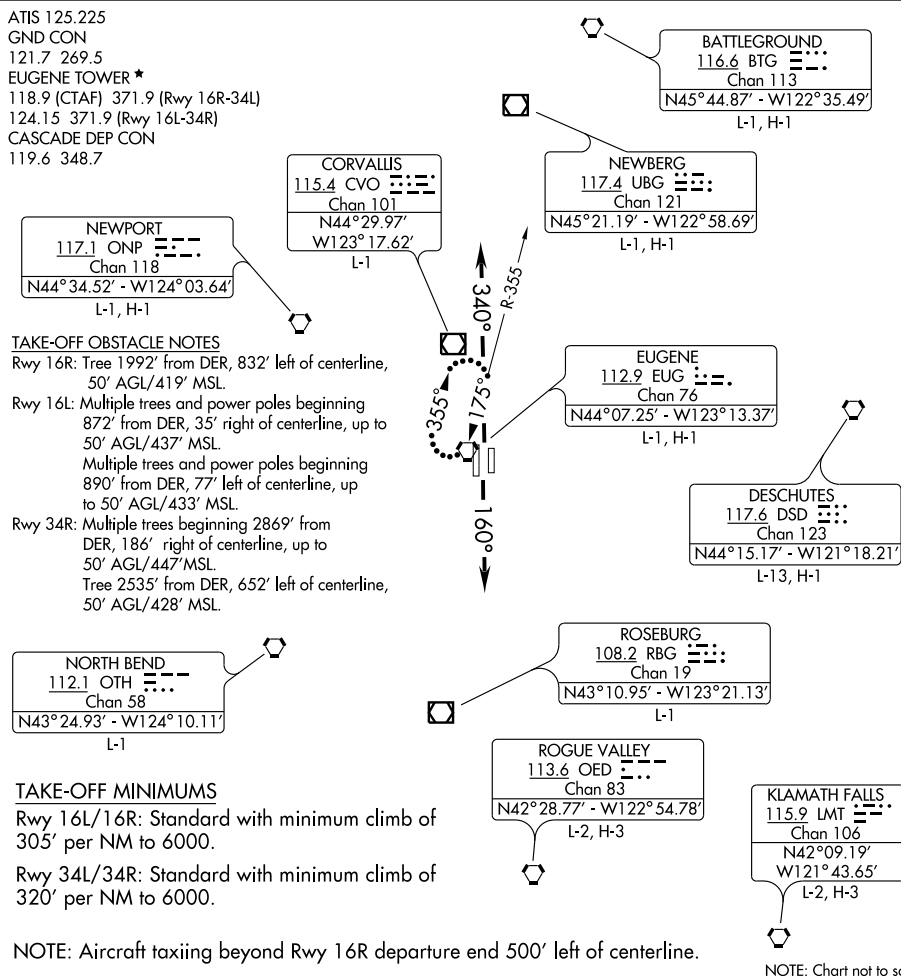
NW-1. 08 APR 2010 to 06 MAY 2010

EUGENE SEVEN DEPARTURE

SL-140 (FAA)

EUGENE/MAHLON SWEET FIELD (EUG)

EUGENE, OREGON



NW-1, 08 APR 2010 to 06 MAY 2010



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 16L and 16R: Climb via heading 160° (or ATC assigned heading) for vectors to assigned route/fix

TAKE-OFF RUNWAYS 34L and 34R: Climb via heading 340° (or ATC assigned heading) for vectors to assigned route/fix

. . . . maintain 9000 or assigned altitude, expect filed altitude/flight level five minutes after departure.

LOST COMMUNICATIONS: If not in contact with ATC after reaching 3000', continue climb to assigned altitude direct EUG VORTAC, climb in EUG VORTAC holding pattern (hold N, RT, 175° inbound) to cross EUG VORTAC at or above MEA before proceeding enroute.

APP CRS	Rwy Idg	8009
160°	TDZE	363
	Apt Elev	374

▼

NA

Inoperative table does not apply to S-16R Cat D.

ALSIF-2

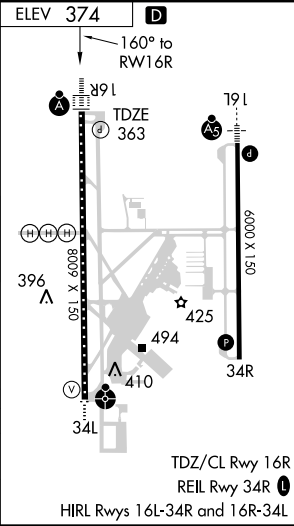
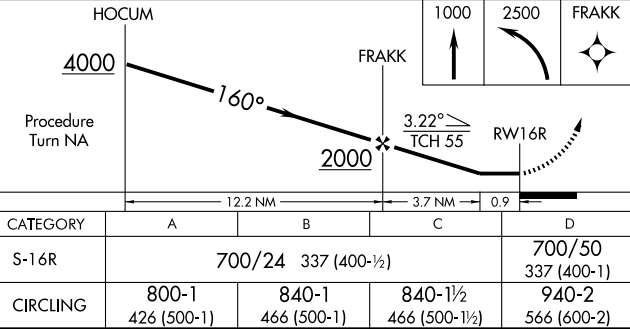
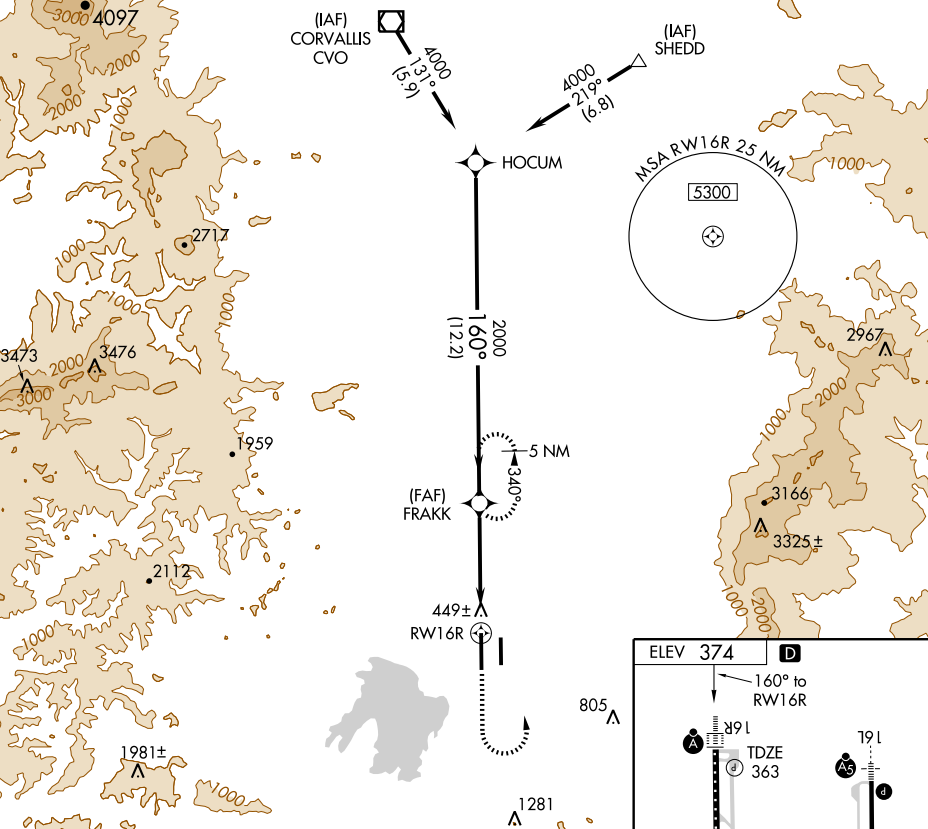
⬆

⬆

⬆

MISSED APPROACH: Climb to 1000 then climbing left turn to 2500 direct FRAKK WP and hold.

ATIS	CASCADE APP CON	EUGENE TOWER★	GND CON	CLNC DEL	UNICOM
125.225	119.6 348.7	118.9 (CTAF) 371.9 (Rwy 16R/34L) 124.15 371.9 (Rwy 16L/34R)	121.7 269.5	121.7 269.5	122.95



NW-1. 08 APR 2010 to 06 MAY 2010

AL-140 (FAA)

LOC/DME F-ADE 111.75 Chan 54 (Y)	APP CRS 160°	Rwy Idg 6000 TDZE 369 Apt Elev 374
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ILS or LOC/DME RWY 16L

EUGENE/MAHLON SWEET FIELD (EUG)

T If local altimeter setting not received, use Corvallis altimeter
A setting and increase all DAs 70 feet, and all MDAs 80 feet.
VDP NA when using Corvallis altimeter setting.

MALSR

MISSED APPROACH: Climb to 5200 via heading 160° and EUG VORTAC R-152 to SAGIN/EUG 16 DME and hold, continue climb-in-hold to 5200.

ATIS 125.225	CASCADE APP CON 119.6 348.7	EUGENE TOWER ★ 118.9 (CTAF) 371.9 (Rwy 16R/34L) 124.15 371.9 (Rwy 16L/34R)	GND CON 121.7 269.5	CLNC DEL 121.7 269.5	UNICOM 122.95
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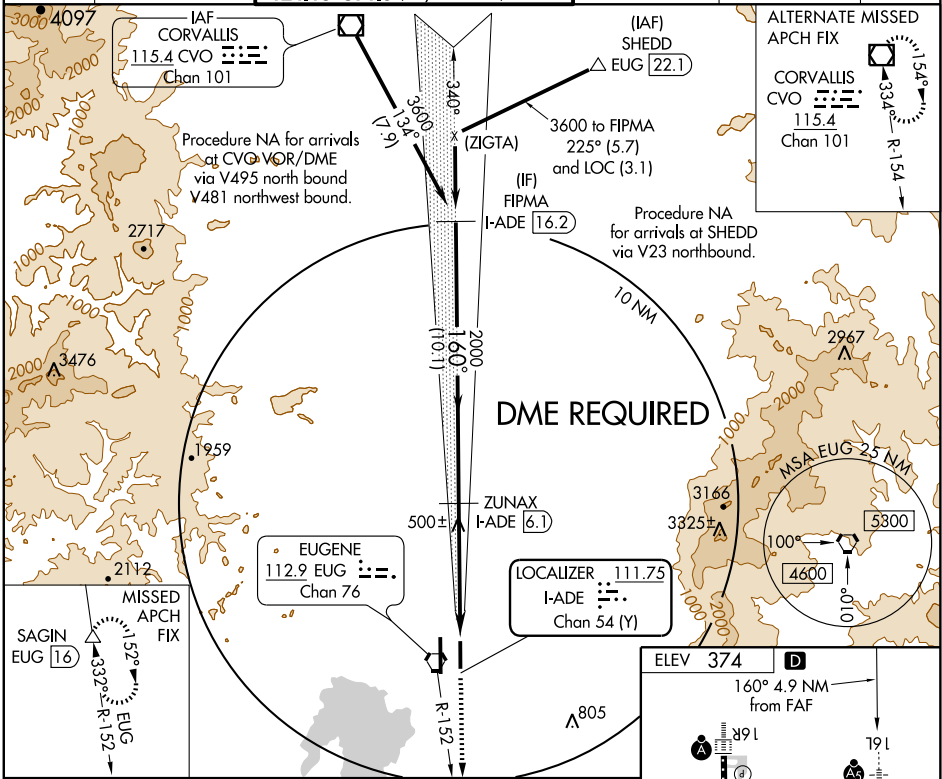
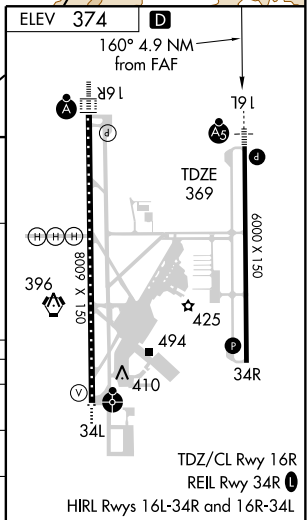


Diagram illustrating a non-precision approach for a runway with a 3600m ILS glidepath. The diagram shows a 160-degree descent angle from 3600m to 2000m, then a 1.2 NM segment to the runway. Key data includes: FIPMA I-ADE 16.2, VGS ILS glidepath not coincident, EUG R-152 112.9, SAGIN, ZUNAX I-ADE 6.1, hdg 160°, GS 3.00°, TCH 46, 10.1 NM, 3.7 NM, 1.2 NM, CATEGORY A, B, C, D, S-ILS 16L, S-LOC 16L, CIRCLING, and various altitudes and distances for each phase.



NW-1 08 APR 2010 to 06 MAY 2010

LOC/DME I-EUG <u>110.1</u> Chan 38	APP CRS 160°	Rwy Idg 8009 TDZE 364 Apt Elev 374
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ILS or LOC/DME Z RWY 16R

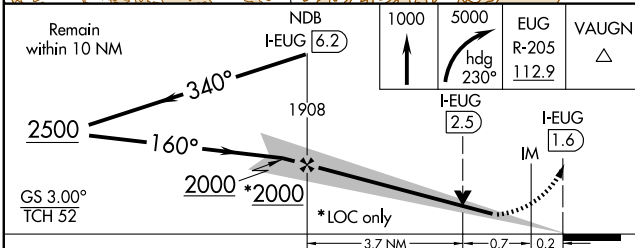
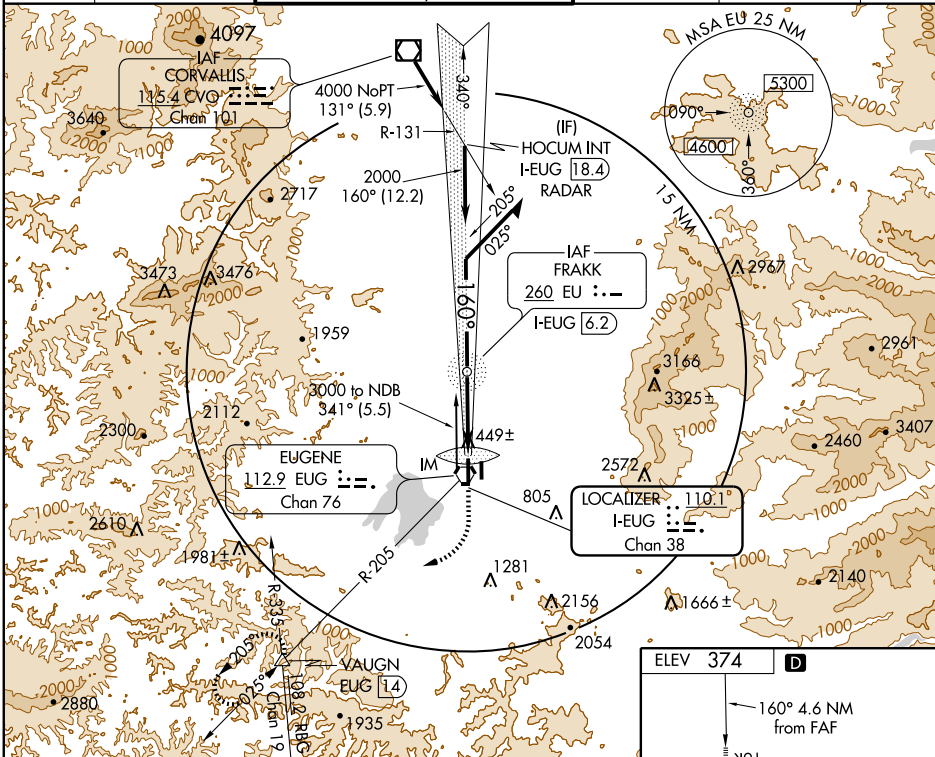
EUGENE/MAHLON SWEET FIELD (EUG)

- | | |
|----------|--|
| T | For inoperative ALSF-2: increase S-LOC 16R Cat D |
| A | visibility to RVR 5000.
DME required. |

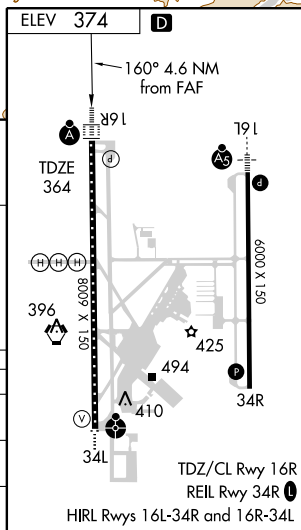


MISSED APPROACH: Climb to 1000 then climbing right turn to 5000 via heading 230° and EUG R-205 to VAUGN/ EUG 14 DME and hold, continue climb-in-hold to 5000.

ATIS 125.225	CASCADE APP CON 119.6 348.7	EUGENE TOWER ★ 118.9 (CTAF) 0 371.9 (Rwy 16R/34L) 124.15 371.9 (Rwy 16L/34R)	GND CON 121.7 269.5	CLNC DEL 121.7 269.5	UNICOM 122.95
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CATEGORY	A	B	C	D
S-ILS 16R	564/18 200 (200-½)			
S-LOC 16R	700/24 336 (400-½)			700/40 336 (400-¾)
CIRCLING	800-1 426 (500-1)	840-1 466 (500-1)	840-1½ 466 (500-1½)	940-2 566 (600-2)

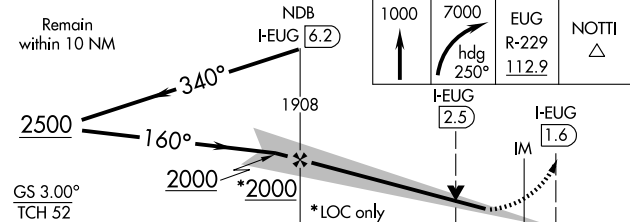
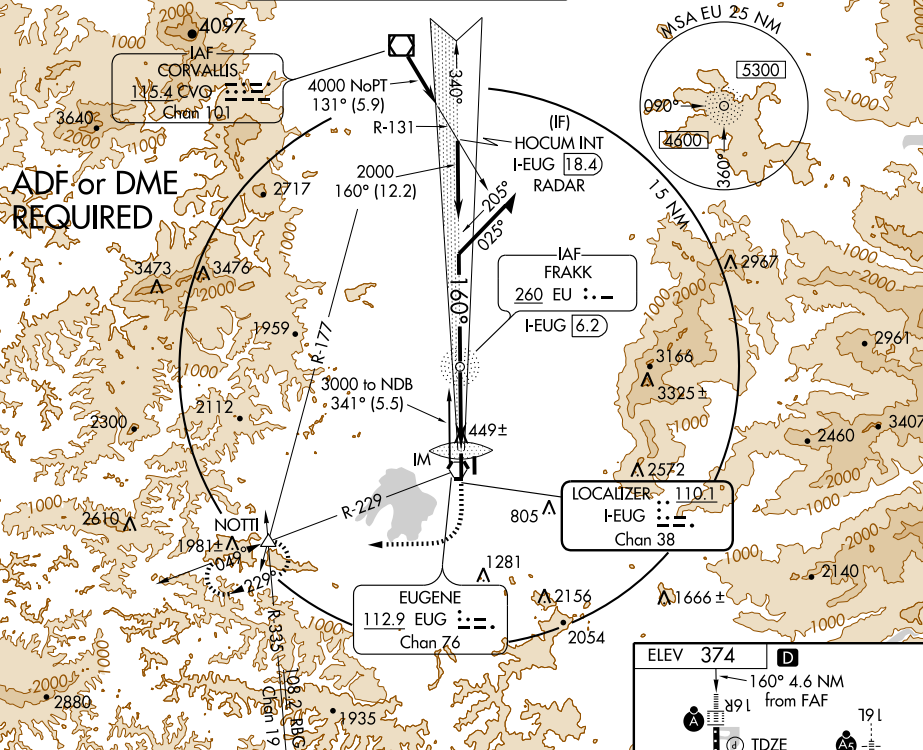


LOC/DME I-EUG	APP CRS	Rwy Idg	8009
110.1	160°	TDZE	364
Chan 38		Apt Elev	374

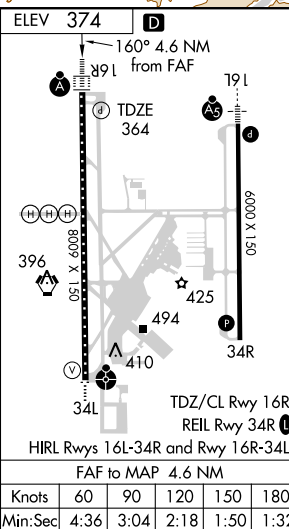
For inoperative ALSF-2: increase S-LOC 16R Cat D visibility to RVR 5000.

MISSED APPROACH: Climb to 1000 then climbing right turn to 7000 via heading 250° and EUG R-229 to NOTTI INT and hold, continue climb-in-hold to 7000.

ATIS	CASCADE APP CON	EUGENE TOWER ★	GND CON	CLNC DEL	UNICOM
125.225	119.6 348.7	118.9 (CTAF) 371.9 (Rwy 16R/34L) 124.15 371.9 (Rwy 16L/34R)	121.7 269.5	121.7 269.5	122.95



CATEGORY	A	B	C	D
S-ILS 16R	564/18 200 (200-½)			
S-LOC 16R	700/24 336 (400-½)			700/40 336 (400-¾)
CIRCLING	800-1 426 (500-1)	840-1 466 (500-1)	840-1½ 466 (500-1½)	940-2 566 (600-2)



NW-1, 08 APR 2010 to 06 MAY 2010

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Cat II minimums not authorized when control tower closed.

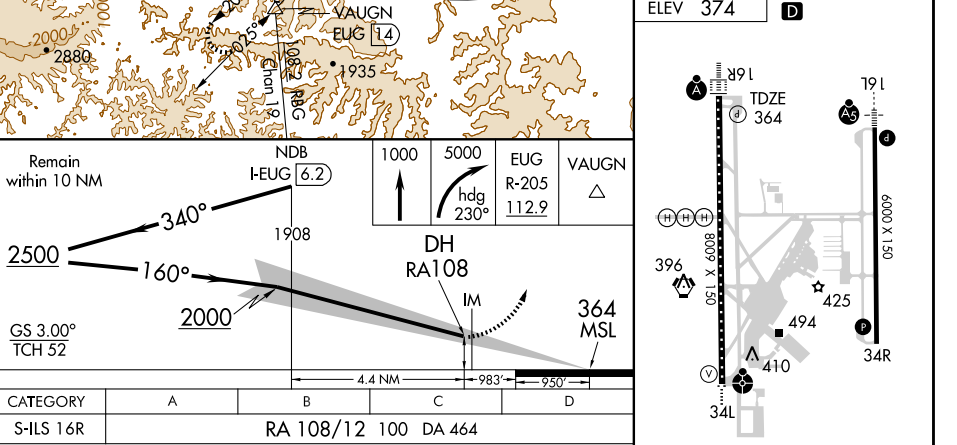
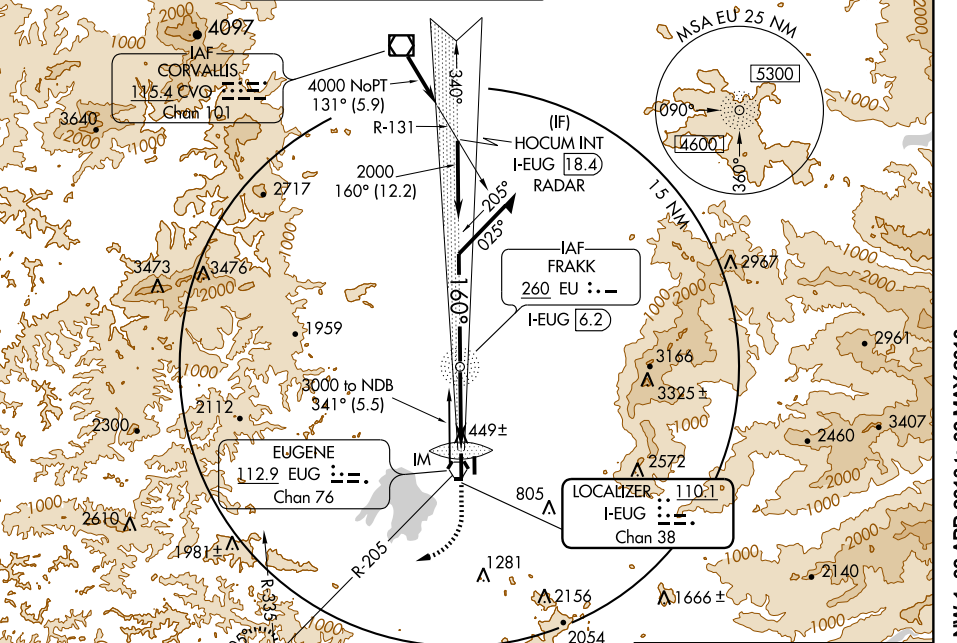
▲

DME required.

ALSF-2

MISSED APPROACH: Climb to 1000 then climbing right turn to 5000 via heading 230° and EUG R-205 to VAUGHN/ EUG 14 DME and hold, continue climb-in-hold to 5000.

ATIS	CASCADE APP CON	EUGENE TOWER★	GND CON	CLNC DEL	UNICOM
125.225	119.6 348.7	118.9 (CTAF) 371.9 (Rwy 16R/34L) 124.15 371.9 (Rwy 16L/34R)	121.7 269.5	121.7 269.5	122.95



NW-1. 08 APR 2010 to 06 MAY 2010

LOC/DME F-EUG <u>110.1</u> Chn 38	APP CRS 160°	Rwy Idg 8009 TDZE 364 Apt Elev 374
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ILS RWY 16R (CAT III)

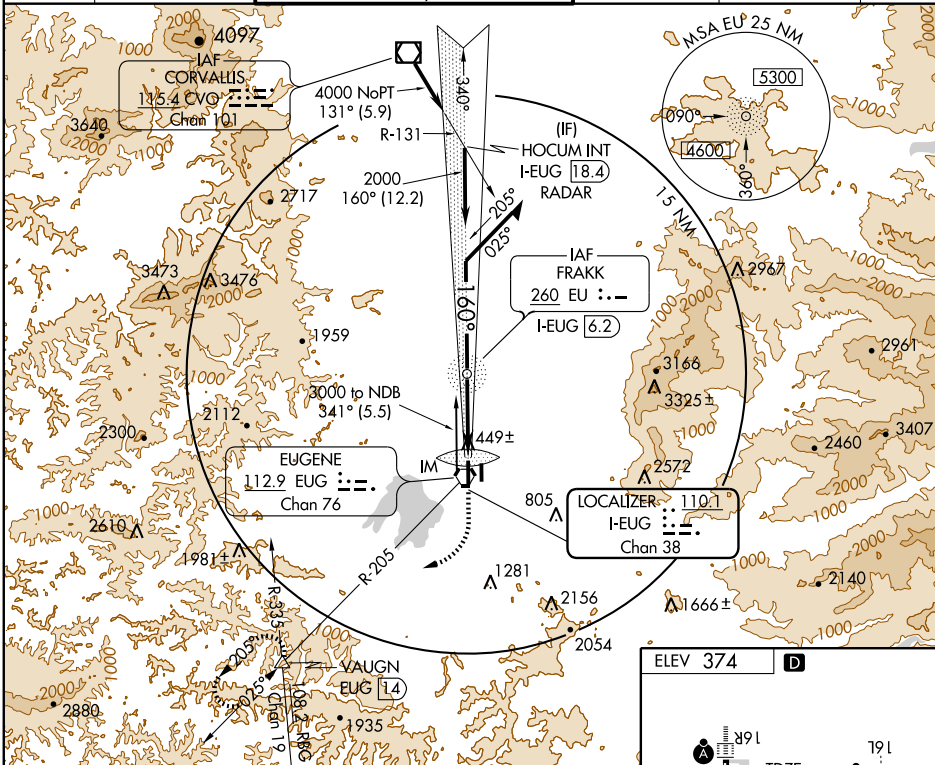
EUGENE/MAHLON SWEET FIELD (EUG)

T Cat III minimums not authorized when control tower closed.
A DME required.

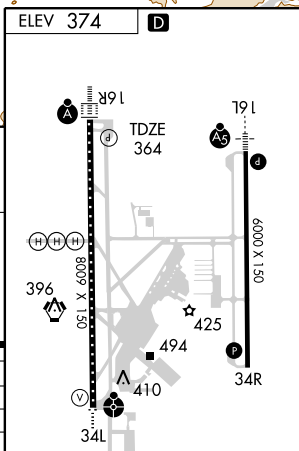
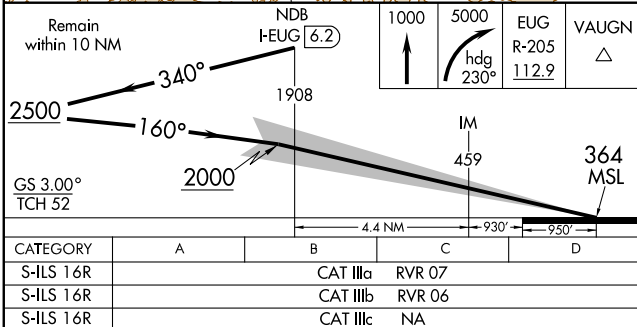
ALSF-2

MISSED APPROACH: Climb to 1000 then climbing right turn to 5000 via heading 230° and EUG R-205 to VAUGN/ EUG 14 DME and hold, continue climb-in-hold to 5000.

ATIS 125.225	CASCADE APP CON 119.6 348.7	EUGENE TOWER ★ 118.9 (CTAF) 371.9 (Rwy 16R/34L) 124.15 371.9 (Rwy 16L/34R)	GND CON 121.7 269.5	CLNC DEL 121.7 269.5	UNICOM 122.95
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NW-1. 08 APR 2010 to 06 MAY 2010

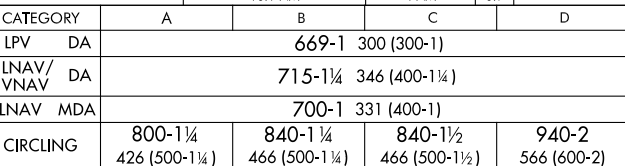


CATEGORY III ILS - SPECIAL AIRCREW & AIRCRAFT CERTIFICATION REQUIRED

TDZ/CL Rwy 16R
REIL Rwy 34R **L**
HIRL Rwys 16R-34L and 16L-34R

EUGENE/MAHLON SWEET FIELD (EUG)

MISSED APPROACH: Climb to 4000 direct WELID and via 156° track to SAGIN and hold, continue climb-in-hold to 4000.



UNICOM
122.95

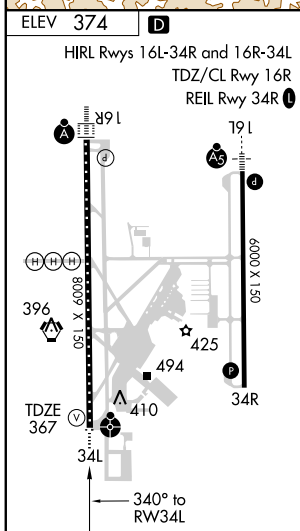
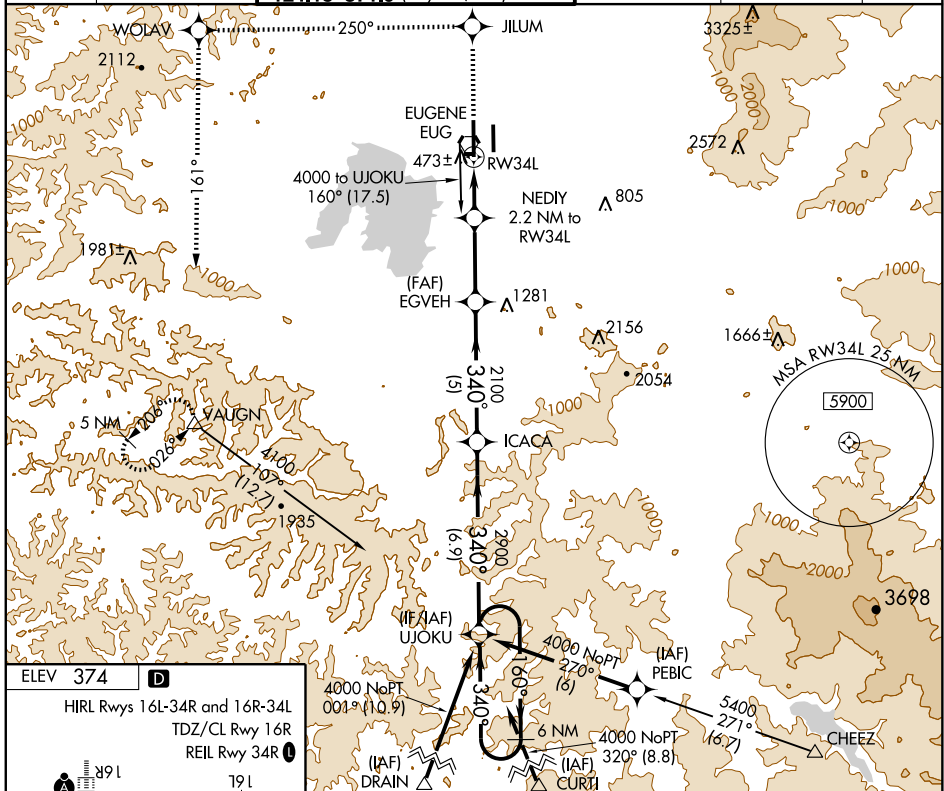
NW-1 08 APR 2010 to 06 MAY 2010

WAAS CH 45600 W34A	APP CRS 340°	Rwy Idg 8009 TDZE 367 Apt Elev 374
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RNAV (GPS) RWY 34L

EUGENE/ MAHLON SWEET FIELD (EUG)

	Inoperative table does not apply to LPV and LNAV/VNAV. Baro-VNAV NA below -15°C (5°F). DME/DME RNP-0.3 NA.				MISSED APPROACH: Climb to 4000 direct JILUM and via 250° track to WOLAV and 161° track to VAUGHN and hold.		
	ATIS 125.225	CASCADE APP CON 119.6 348.7	EUGENE TOWER ★ 118.9 (CTAF) 0 371.9 (Rwy 16R/34L) 124.15 371.9 (Rwy 16L/34R)		GND CON 121.7 269.5	CLNC DEL 121.7 269.5	UNICOM 122.95



4000 ↑	JILUM ✱	250° track	WOLAV ✱	161° track	VAUGHN △	ICACA	UJOKU	6 NM Holding Pattern
						160° → 4000 ← 340°		
*LNAV only RW 34L *1.1 NM to RW34L 2.2 NM to RW34L 1120 2100 1.1 NM 1.1 NM 3 NM 5 NM 6.9 NM						GS 3.00° TCH 54		
CATEGORY		A		B		C		D
LPV	DA			617/40		250 (300-¾)		
LNAV/VNAV	DA			744/60		377 (400-1¼)		
LNAV MDA				760/40		393 (400-¾)		760/60 393 (400-1¼)
CIRCLING		800-1¼ 426 (500-1¼)		840-1¼ 466 (500-1¼)		840-1½ 466 (500-1½)		940-2 566 (600-2)

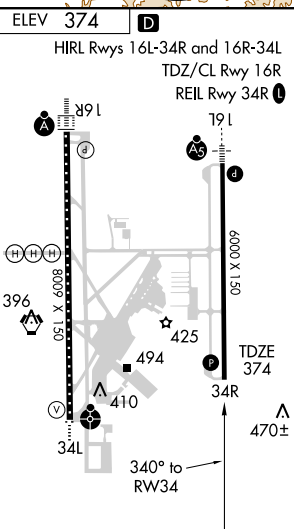
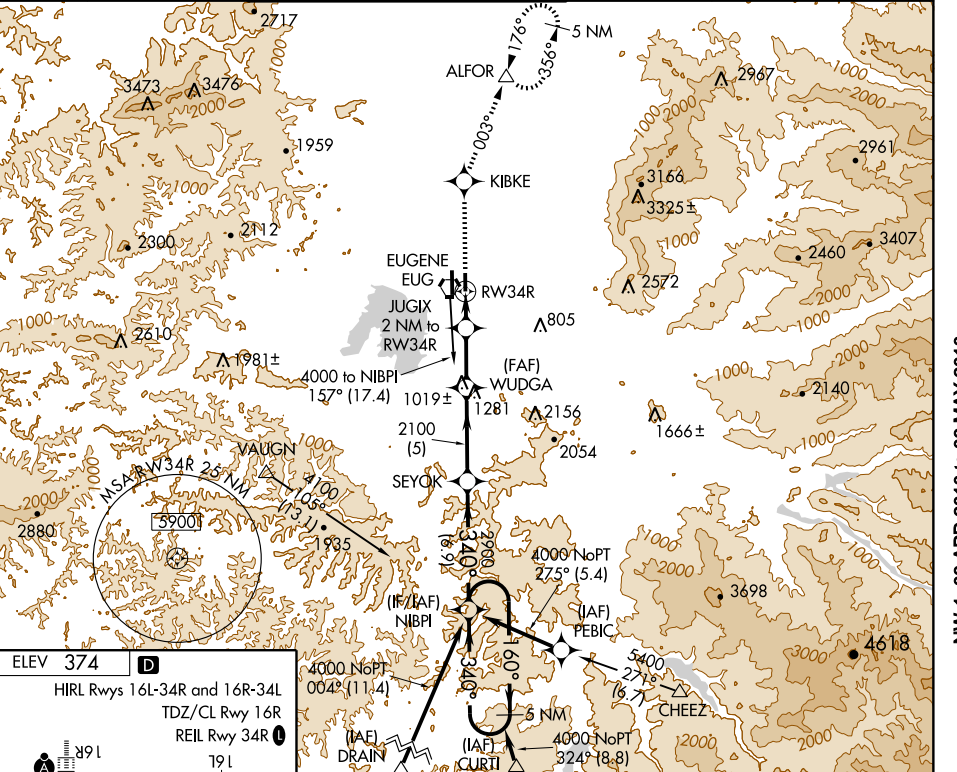
▼

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For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 48°C (118°F).
DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 3000 direct KIBKE and via track 003° to ALFOR and hold.

ATIS 125.225	CASCADE APP CON 119.6 348.7	EUGENE TOWER ★ 118.9 (CTAF) 371.9 (Rwy 16R/34L) 124.15 371.9 (Rwy 16L/34R)	GND CON 121.7 269.5	CLNC DEL 121.7 269.5	UNICOM 122.95
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3000	KIBKE	trk 003°	ALFOR	NIBPI	5 NM Holding Pattern
*RNAV only					
JUGIX 2 NM to RW34R					
RW 34R					
1.1 NM 0.9 NM 3.2 NM 5 NM 6.9 NM					
CATEGORY	A	B	C	D	
LPV DA	658-1 284 (300-1)				
LNAV/ VNAV	796-1½ 422 (500-1½)				
LNAV MDA	760-1 386 (400-1)				760-1½ 386 (400-1½)
CIRCLING	800-1 426 (500-1)	840-1 466 (500-1)	840-1½ 466 (500-1½)	940-2 566 (600-2)	

AL-140 (FAA)

VORTAC EUG 112.9 Chan 76	APP CRS 168°	Rwy Idg 8009 TDZE 363 Apt Elev 374
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VOR/DME or TACAN RWY 16R

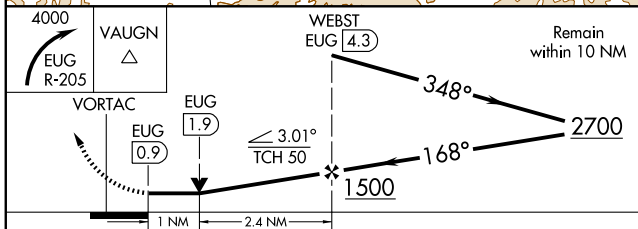
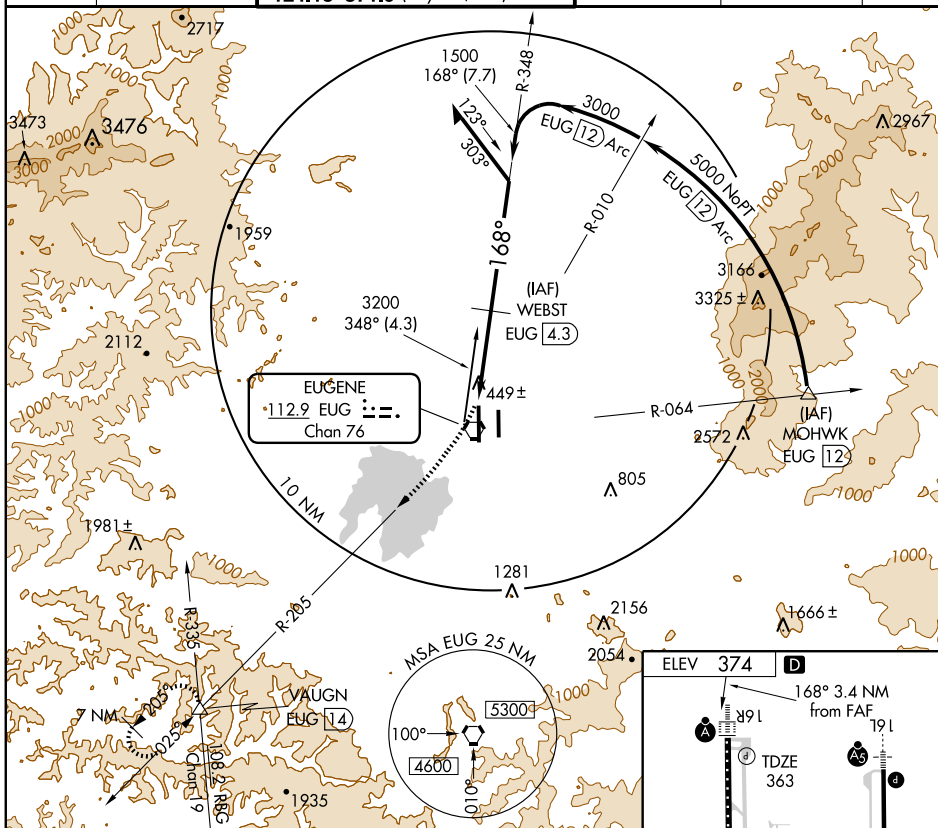
EUGENE/MAHLON SWEET FIELD (EUG)

T For inoperative MALSR, increase S-16R Cat D visibility to RVR 6000.

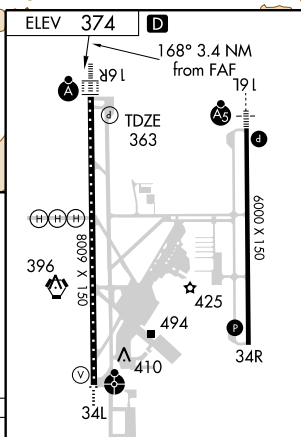


MISSED APPROACH: Climbing right turn to 4000 via EUG R-205 to VAUGN/14 DME and hold.

ATIS 125.225	CASCADE APP CON 119.6 348.7	EUGENE TOWER ★ 118.9 (CTAF) 0 371.9 (Rwy 16R/34L) 124.15 371.9 (Rwy 16L/34R)	GND CON 121.7 269.5	CLNC DEL 121.7 269.5	UNICOM 122.95
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CATEGORY	A	B	C	D
S-16R	720/24 357 (400-½)			720/50 357 (400-1)
CIRCLING	800-1 426 (500-1)	840-1 466 (500-1)	840-1½ 466 (500-1½)	940-2 566 (600-2)



TDZ/CL Rwy 16R
REIL Rwy 34R **L**
HIRL Rwys 16L-34R and Rwy 16R-34L

NW-1. 08 APR 2010 to 06 MAY 2010

EUGENE, OREGON

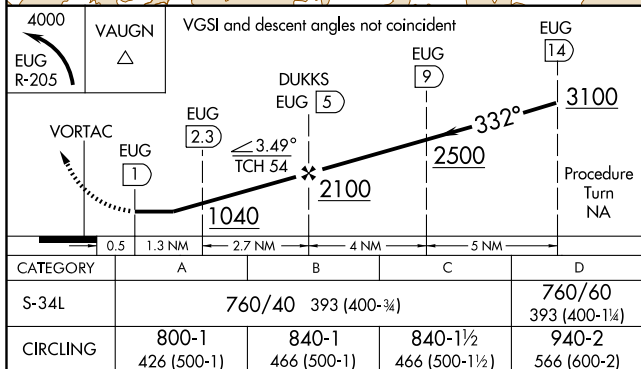
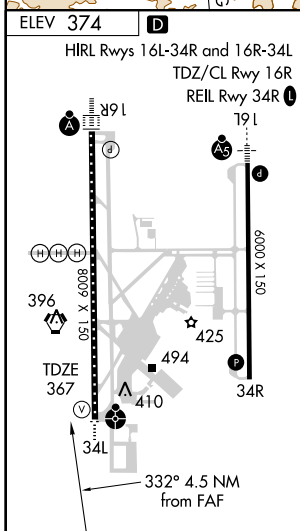
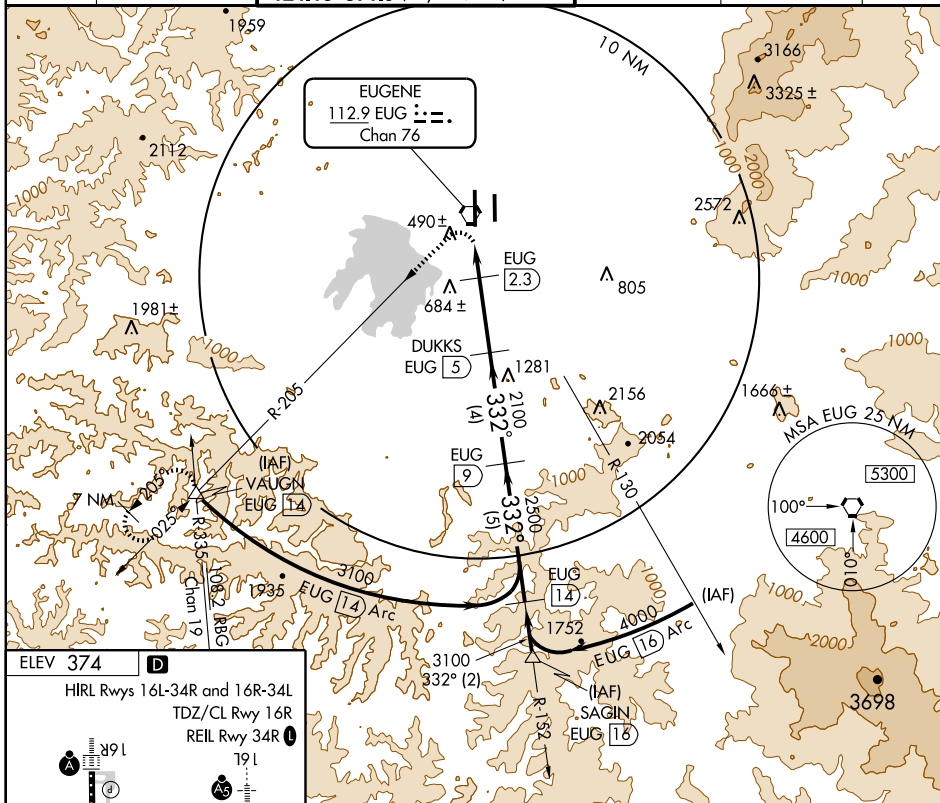
AL-140 (FAA)

VORTAC EUG 112.9 Chan 76	APP CRS 332°	Rwy Idg TDZE Apt Elev	8009 367 374
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VOR/DME or TACAN RWY 34L

EUGENE/MAHLON SWEET FIELD (EUG)

		ODALS 	MISSED APPROACH: Climbing left turn to 4000 via EUG R-205 to VAUGHN/14 DME and hold.	
ATIS 125.225	CASCADE APP CON 119.6 348.7	EUGENE TOWER ★ 118.9 (CTAF) 371.9 (Rwy 16R/34L) 124.15 371.9 (Rwy 16L/34R)		UNICOM 122.95
GND CON 121.7 269.5		CLNC DEL 121.7 269.5		



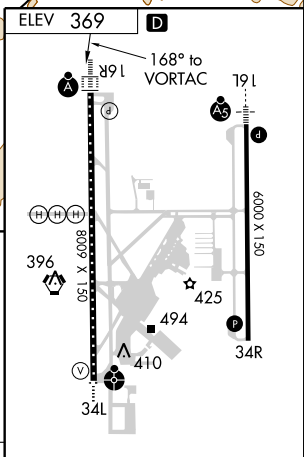
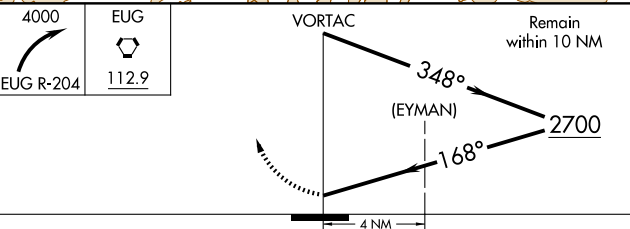
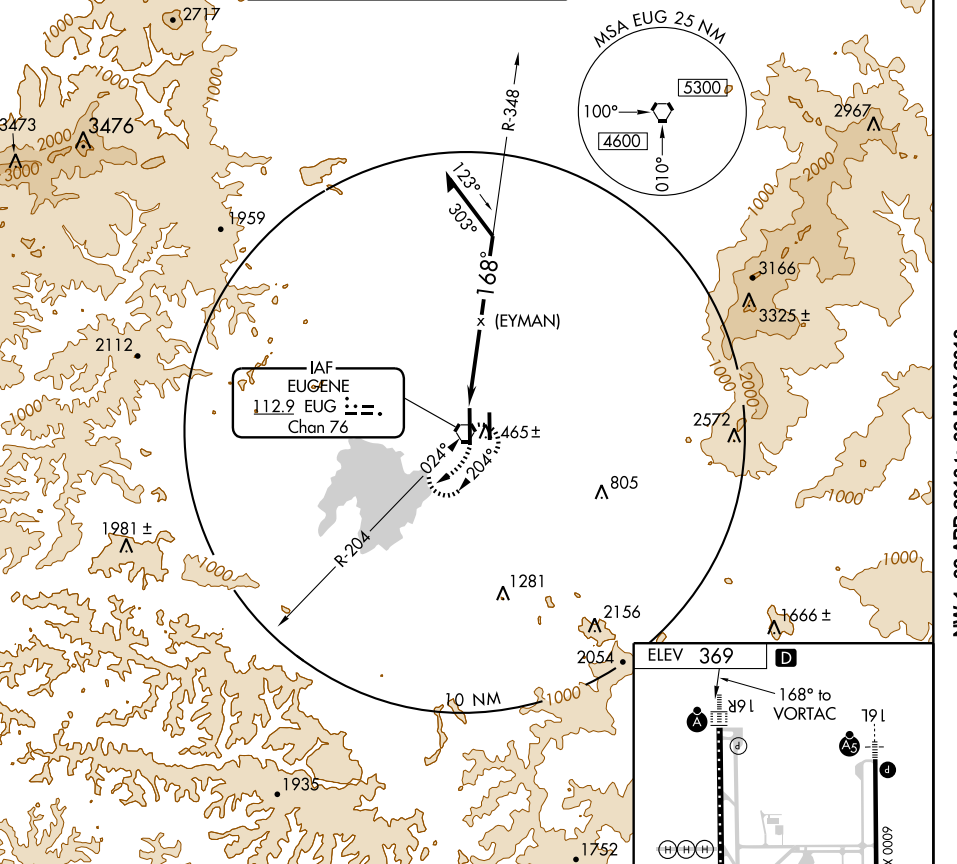
NW-1, 08 APR 2010 to 06 MAY 2010

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MISSED APPROACH: Climbing right turn to 4000 via EUG R-204, then direct EUG VORTAC and hold.

ATIS	CASCADE APP CON	EUGENE TOWER★	GND CON	CLNC DEL	UNICOM
125.225	119.6 348.7	118.9 (CTAF) 371.9 (Rwy 16R/34L) 124.15 371.9 (Rwy 16L/34R)	121.7 269.5	121.7 269.5	122.95



CATEGORY	A	B	C	D
CIRCLING	1200-1 831 (900-1)	1200-1¼ 831 (900-1¼)	1200-2½ 831 (900-2½)	1200-2¾ 831 (900-2¾)

TDZ/CL Rwy 16R
REIL Rwy 34R
HIRL Rwy 16L-34R and Rwy 16R-34L

NW-1. 08 APR 2010 to 06 MAY 2010

GPS or RNP-0.3 Required. DME/DME RNP-0.3 NA.

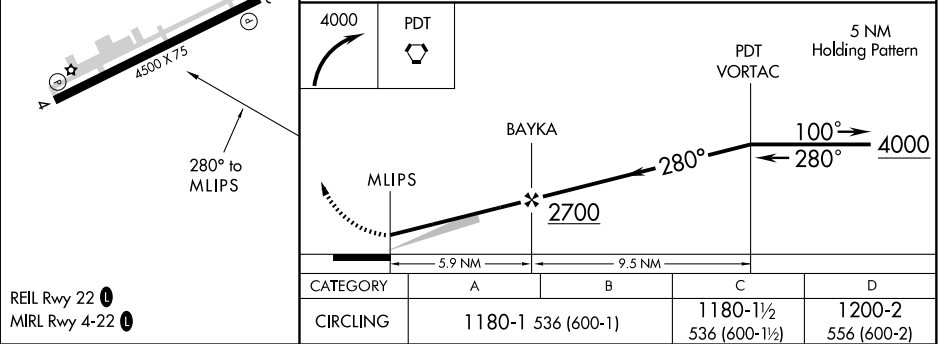
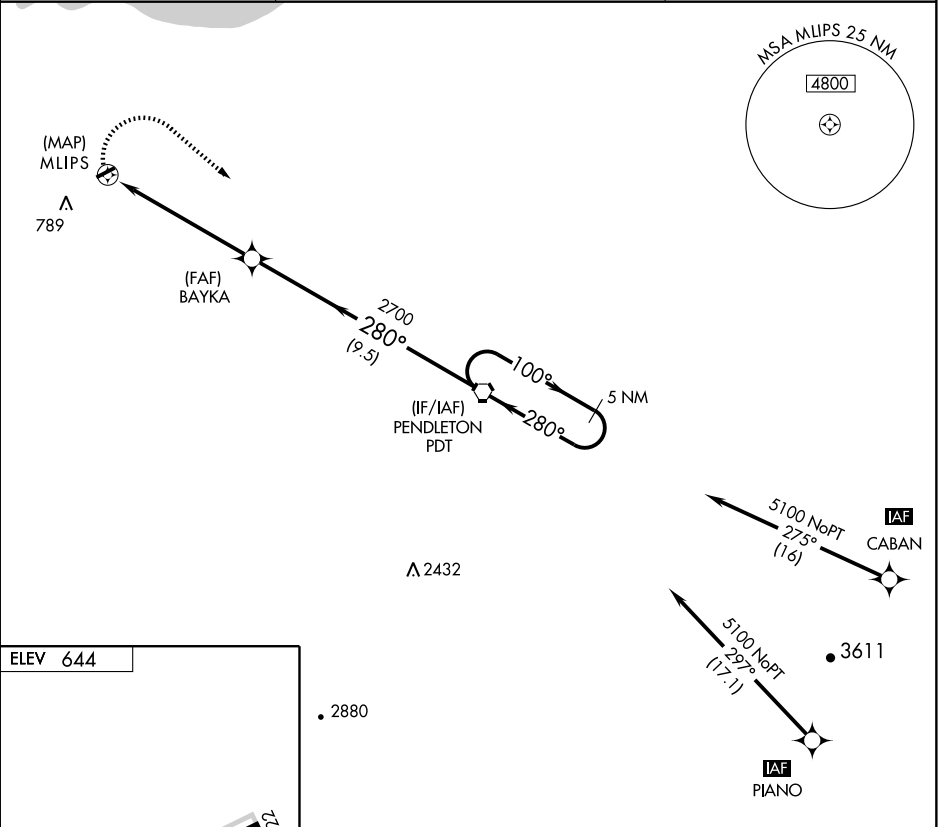
MISSED APPROACH: Climbing right turn to 4000 direct PDT VORTAC and hold.

NA

IAF

ARM APPROACH MODE PRIOR TO IAF.

ASOS 135.225	CHINOOK APP CON ★ 133.15 379.15	UNICOM 122.8 (CTAF) 0
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REIL Rwy 22 0

MIRL Rwy 4-22 0

VORTAC PDT 114.7 Chan 94	APP CRS 280°	Rwy Idg TDZE Apt Elev	N/A N/A 644
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VOR/DME-A
HERMISTON MUNI (HRI)

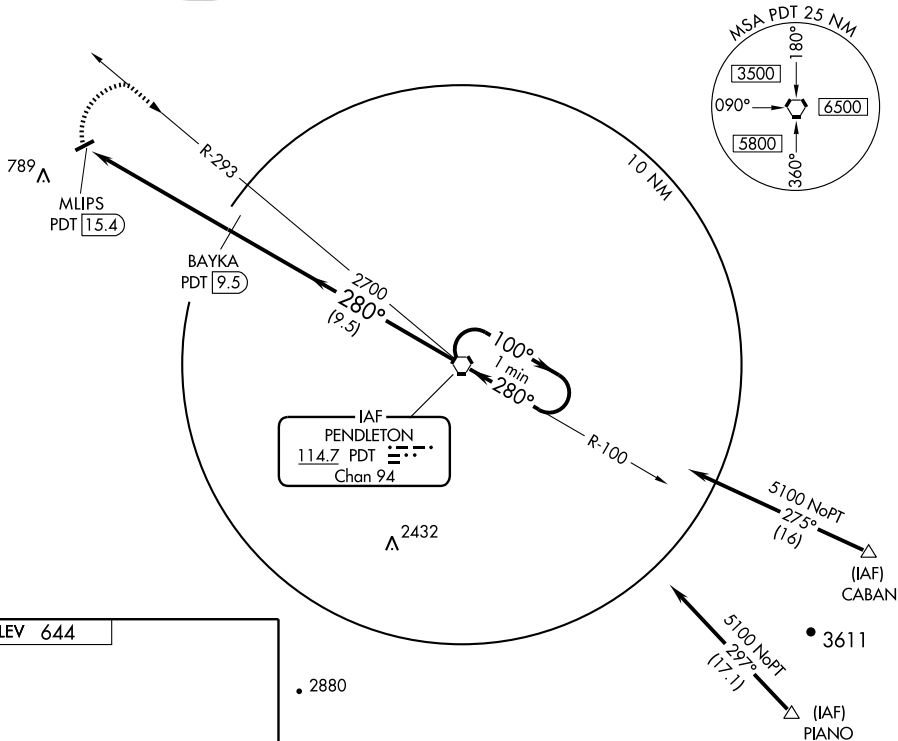


MISSED APPROACH: Climbing right turn to 4000 via PDT R-293 to PDT VORTAC and hold.

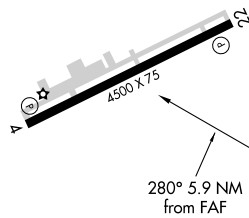
ASOS
135,225

CHINOOK APP CON ★
133.15 379.15

UNICOM
122.8 (CTAF) **L**

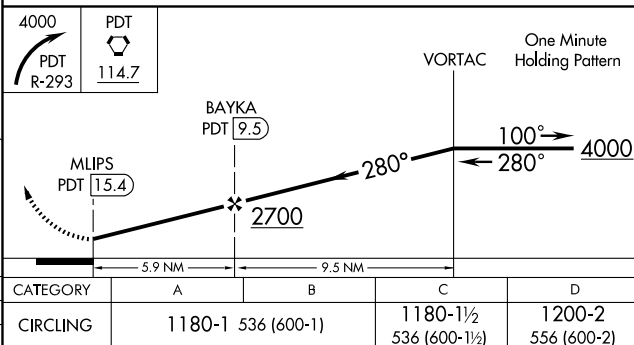


NW-1. 08 APR 2010 to 06 MAY 2010



REIL Rwy 22 **L**
MIRL Rwy 4-22 **L**

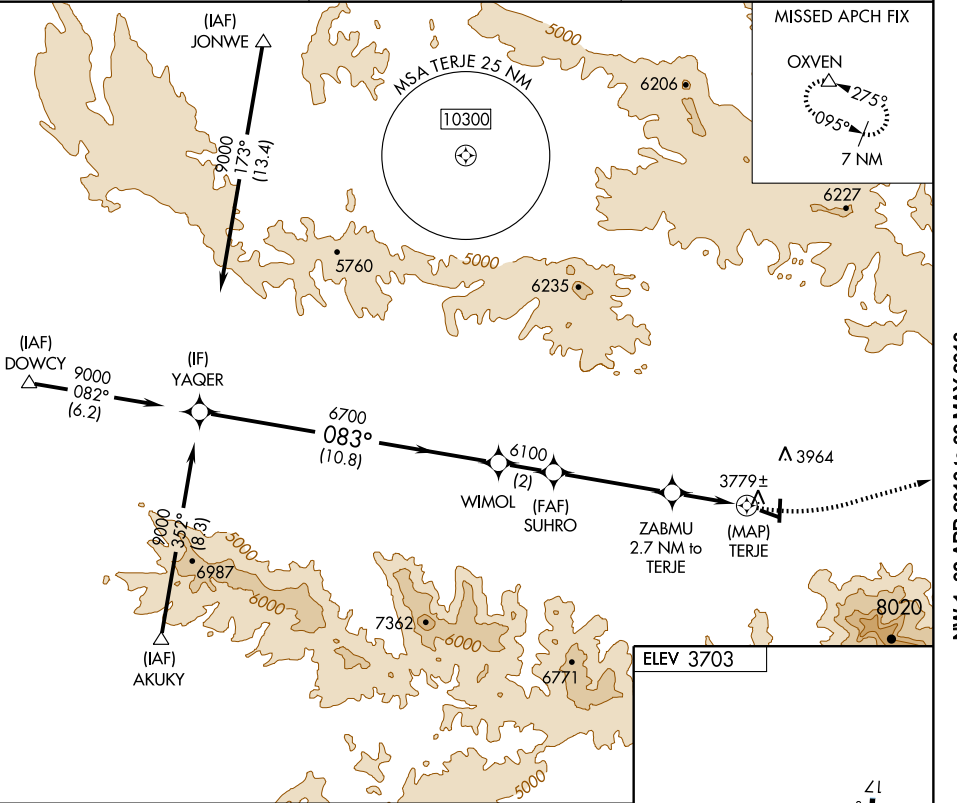
Knots	60	90	120	150	180
Min:Sec					



⚠ When local altimeter setting not received, procedure NA.
⚠ Circling NA south of Rwy 9-27. DME/DME RNP-0.3 NA.
Visibility reduction by helicopters NA.

MISSED APPROACH: Climbing left turn to 12000 direct OXVEN and hold, continue climb-in-hold to 12000.

AWOS-3 118.375	SEATTLE CENTER 128.15 257.75	UNICOM 122.8 (CTAF) 0
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YAQER	WIMOL	SUHRO	ZABMU 2.7 NM to TERJE	TERJE
9000	6700	6100	4700	
Procedure Turn NA				
10.8 NM 2 NM 4.3 NM 2.7 NM 0.5 NM				
CATEGORY	A	B	C	D
LNNAV MDA	4280-1	611 (600-1)	4280-1 3/4 611 (600-1 3/4)	NA
CIRCLING	4280-1 577 (600-1)	4520-1 1/4 817 (900-1 1/4)	4520-2 1/2 817 (900-2 1/2)	NA

ELEV 3703

OXVEN **△**

TDZE 3669

4471 X 60

5220 X 60

3707

35

27

1.1 % UP

0.5 % UP

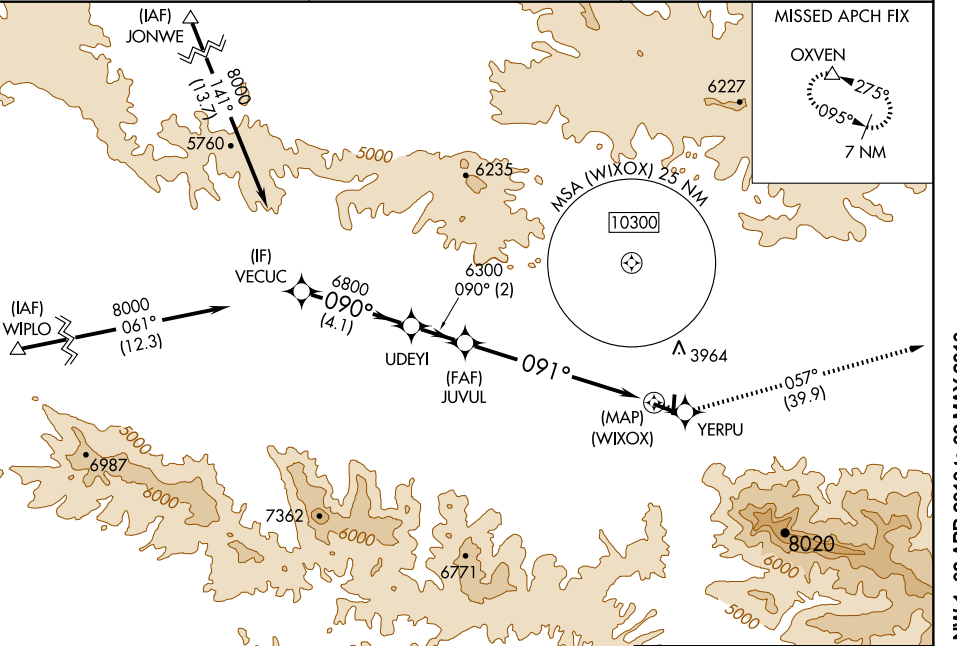
1.1 % UP

NW-1. 08 APR 2010 to 06 MAY 2010

When local altimeter setting not received, procedure NA.
DME/DME RNP-0.3 NA.
Visibility reduction by helicopters NA.

MISSED APPROACH: Climb to 12000 direct YERPU then via 057° track to OXVEN and hold, continue climb-in-hold to 12000.

AWOS-3 118.375	SEATTLE CENTER 128.15 257.75	UNICOM 122.8 (CTAF) 0
-------------------	---------------------------------	--------------------------



ELEV 3703

Procedure Turn NA

GS 3.40°

TCH 54

VECUC

UDEYI

JUVUL

(WIXOX)

8000

6800

6300

12000

YERPU

057° trk

OXVEN

4.1 NM

2 NM

7.1 NM

CATEGORY

LPV DA

A

B

C

D

269-2

600 (600-2)

NA

REIL Rwy 17

MIRL Rwy 17-35

URL Rwy 9-27

091°

1.1 % UP

4471 X 60

TDZE 3669

5220 X 60

0.5 % UP

3707

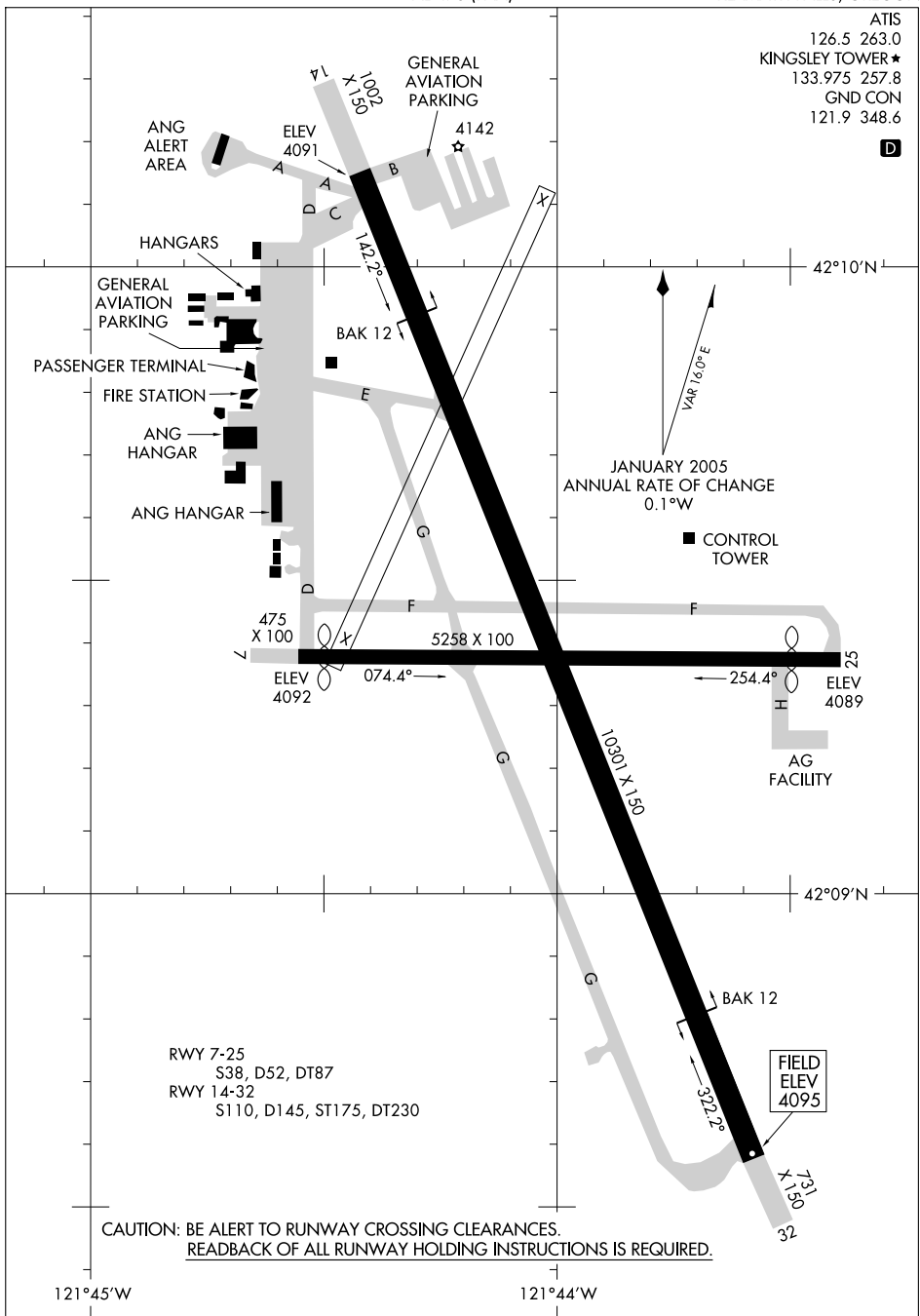
35

NW-1. 08 APR 2010 to 06 MAY 2010

AIRPORT DIAGRAM

AL-473 (FAA)

KLAMATH FALLS (LMT)
KLAMATH FALLS, OREGON



NW-1, 08 APR 2010 to 06 MAY 2010

LOC I-LMT 109.5	APCH CRS 321°	Rwy Idg 10,301 TDZE 4092 Arot Elev 4095	JAL-473 [USAF]	KLAMATH FALLS (KINGSLEY FIELD) (KLMT)
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T * Category E circling NE of Rwy 14-32 not authorized.



MISSED APPROACH: Climb to 5300 heading 307° then climbing left turn to 11,000 via heading 220° to intercept LMT VORTAC R-250 to HJNRY/16 DME and hold.


ATIS ★ 126.5 263.0	KINGSLEY APP CON 123.675 270.8	KINGSLEY TOWER ★ 133.975 CTAF 0 257.8	GND CON 121.9 348.6	ASOS
-----------------------	-----------------------------------	--	------------------------	------

Simultaneous reception of
I-LMT and LMT DME required

ROGUE VALLEY

FL200
109°
(84)

LOCALIZER 109.5
I-LMT 

KLAMATH FALLS
115.9 LMT 
Chan 106

High terrain
all quadrants

LMT

LAKEVIEW

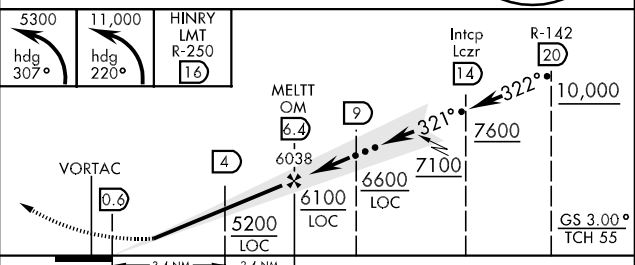
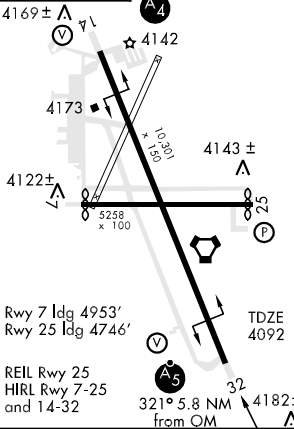
HIGH ALTITUDE FACILITIES

CAUTION:

Descent below 7600 not authorized
unless localizer is received.

EMERG SAFE ALT 100 NM 16,200

ELEV 4095



CATEGORY	C	D	E
S-ILS 32	4292/24	200	(200-½)
S-LOC 32	4500/40	408 (500-¾)	4500/50 408 (500-1)
CIRCLING *	4980-2¾ 885 (900-2¾)	5000-3 905 (1000-3)	5600-3 1505 (1600-3)

KLAMATH FALLS, OREGON

42° 09'N-121° 44'W

Klamath Falls (Kingsley Field) (KLMT)

NW-1, 08 APR 2010 to 06 MAY 2010

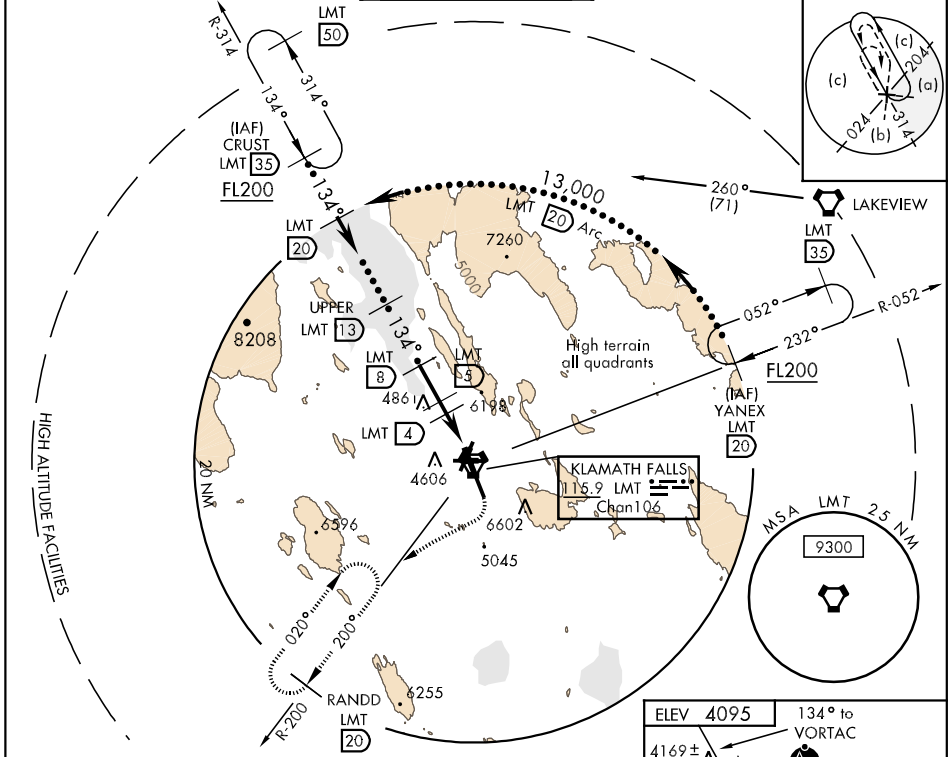
VORTAC LMT 115.9 Chan 106	APCH CRS 134°	Rwy ldg 10,301 TDZE 4088 Arpt Elev 4095
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JAL-473 [USAF] KLAMATH FALLS (KINGSLEY FIELD) (KLMT)

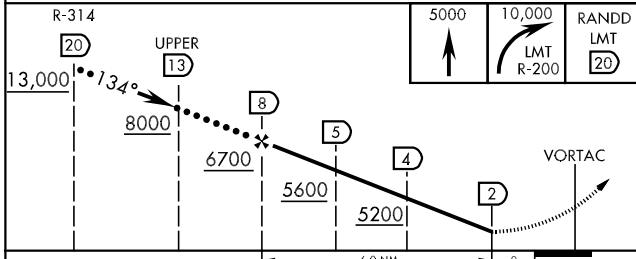
▼ * Category E circling NE of Rwy 14-32 not authorized.

MALSF MISSED APPROACH: Climb straight ahead to 5000 then climbing right turn to 10,000 via LMT VORTAC R-200 to RANDD and hold.

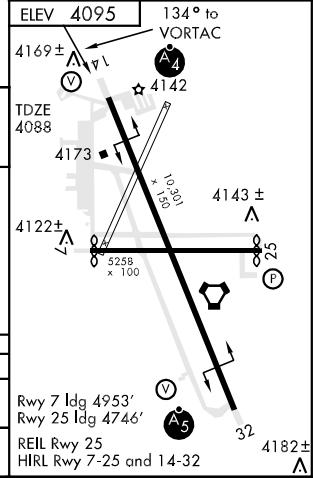
ATIS ★ 126.5 263.0	KINGSLEY APP CON 123.675 270.8	KINGSLEY TOWER ★ 133.975 CTAF 0 257.8	GND CON 121.9 348.6	ASOS
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EMERG SAFE ALT 100 NM 16,200



CATEGORY	C	D	E
S-14	4680-1½ 592 (600-1½)	4680-1¾ 592 (600-1¾)	
CIRCLING *	4980-2¾ 885 (900-2¾)	5000-3 905 (1000-3)	5500-3 1405 (1500-3)

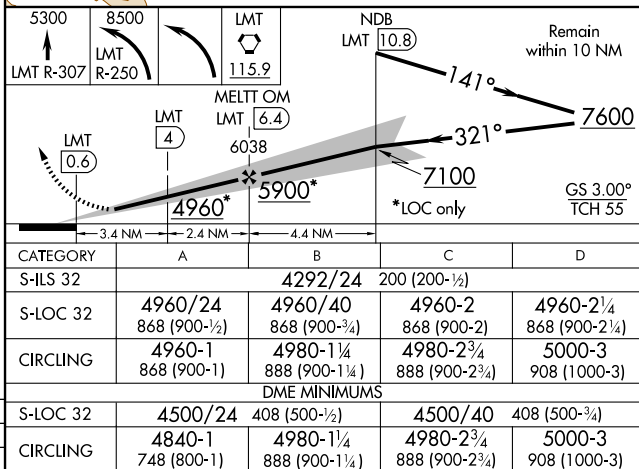
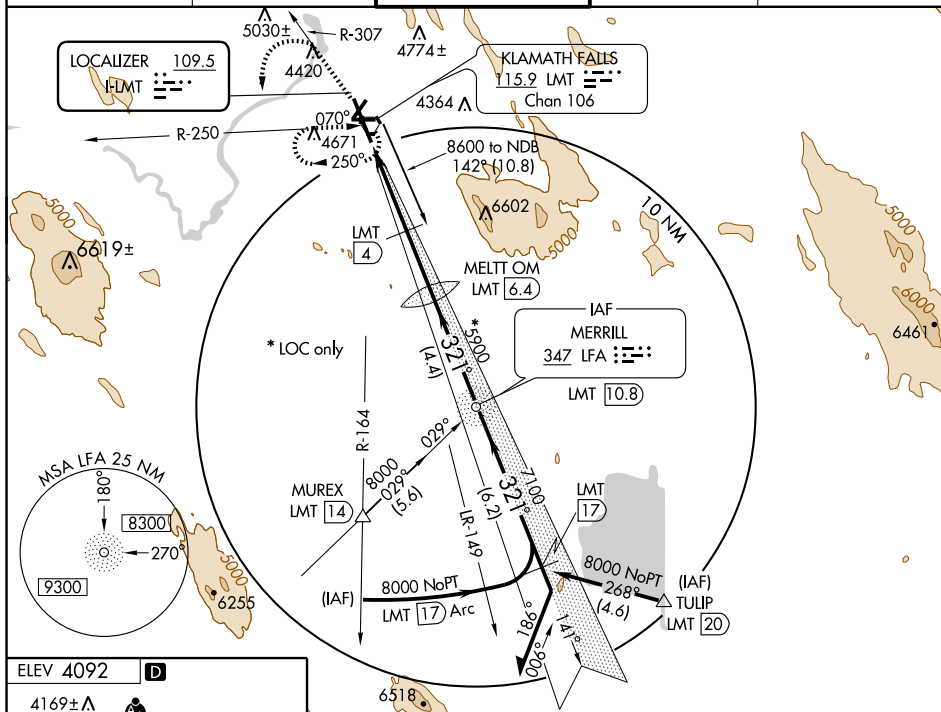


NW-1, 08 APR 2010 to 06 MAY 2010

ILS or LOC RWY 32

MALSR

MISSED APPROACH: Climb to 5300 via LMT R-307 then climbing left turn westbound to 8500 via LMT R-250, then left turn direct LMT VORTAC and hold.

UNICOM
122.95

KINGSLEY THREE DEPARTURE

SL-473 (FAA)

KLAMATH FALLS (LMT)
KLAMATH FALLS, OREGON

ATIS

126.5 263.0

GND CON

121.9 348.6

KINGSLEY TOWER ★

133.975 257.8

KINGSLEY DEP CON ★

123.675 270.8

EUGENE

112.9 EUG

Chan 76

N44°07.25'-W123°13.37'

L-1, H-1

DESCHUTES

117.6 DSD

Chan 123

N44°15.17'-W121°18.21'

L-13, H-1

ROSEBURG

108.2 RBG

Chan 19

N43°10.95'-W123°21.14'

L-1, H-1

ROGUE VALLEY

113.6 OED

Chan 83

N42°28.78'-W122°54.78'

L-2, H-3

FORT JONES

109.6 FJS

Chan 33

N41°26.98'-W122°48.39'

L-2

RED BLUFF

115.7 RBL

Chan 104

N40°05.93'-W122°14.18'

L-2, H-3

MUSTANG

117.9 FMG

Chan 126

N39°31.88'-W119°39.37'

L-9, H-3

LAKEVIEW

112.0 LKV

Chan 57

N42°29.57'-W120°30.43'

L-11, H-3

KLAMATH FALLS

115.9 LMT

Chan 106

N42°09.19'-W121°43.65'

L-2, H-3

10000 or
assigned altitude

10000 or
assigned altitude

NOTE: Chart not to scale.

NOTE: This SID requires a minimum climb of 325' per NM to 8500' or 4500' ceiling and 3 mile visibility to clear obstruction. (813 FPM at 150K, 1083 FPM 200K, 1354 FPM at 250K).

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 14 and 32: Climb via runway heading until leaving 4700'. Then via radar vector headings to assigned route.

LOST COMMUNICATIONS

If not in contact with Seattle Center after reaching 10000' or assigned altitude, if lower; continue climb to assigned altitude and:

Take-off runway 14: Climbing right turn direct LMT VORTAC, thence via (assigned route).

Take-off runway 32: Climbing left turn direct LMT VORTAC, thence via (assigned route).

RNAV (GPS) RWY 14

KLAMATH FALLS (LMT)

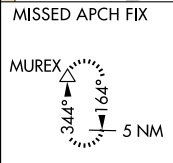
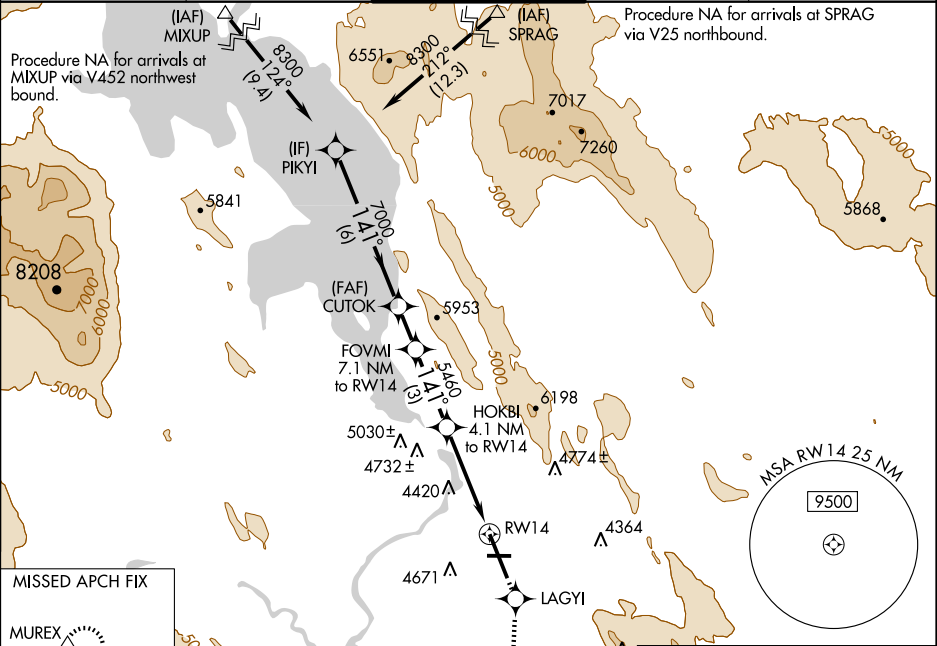
WAAS CH 58001 W14A	APP CRS 141°	Rwy Idg 10301 TDZE 4091 Apt Elev 4095
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⚠ DME/DME RNP-0.3 NA.
Inoperative table does not apply to LPV all Cats, and LNAV Cats B, C and D.
⚠ ASR/PAR Visibility reduction by helicopters NA.

MALSF


MISSED APPROACH: Climb to 9200 direct LAGYI and via 166° track to MUREX and hold, continue climb-in-hold to 9200.

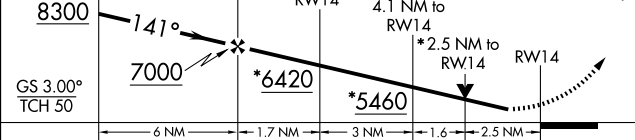
ATIS 126.5 263.0	KINGSLEY APP CON * 123.675 270.8	KINGSLEY TOWER * 133.975 (CTAF) 0 257.8	GND CON 121.9 348.6	UNICOM 122.95
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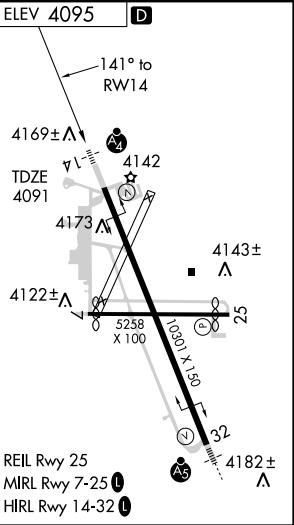
Procedure VGS1 and RNAV glidepath not coincident.

Turn	NA	PIKYI	CUTOK	FOVMI	HOKBI	LAGYI	MUREX
NA				7.1 NM to RW14	4.1 NM to RW14	166° trk	

*LNAV only



CATEGORY	A	B	C	D
LPV DA		4635-2	544 (600-2)	
LNAV/VNAV DA				NA
LNAV MDA	4920-3/4 829 (900-3/4)	4920-1 1/4 829 (900-1 1/4)	4920-2 1/2 829 (900-2 1/2)	4920-2 3/4 829 (900-2 3/4)
CIRCLING	4920-2 825 (900-2)	4980-2 885 (900-2)	4980-2 3/4 885 (900-2 3/4)	5060-3 965 (1000-3)



VORTAC LMT	APP CRS	Rwy Idg	10301
115.9	134°	TDZE	4091
Chan 106		Apt Elev	4095

VOR/DME or TACAN RWY 14

KLAMATH FALLS (LMT)

▼

▲

Cat E circling NA northeast of Rwy 14-32.
For inoperative MALSF increase S-14 Cat E visibility to 2¾,
inoperative table does not apply to Cats B, C, and D.
Visibility reduction by helicopters NA.

MALSF

MISSED APPROACH:

Climb to 4900 then
climbing right turn to 9200 via LMT R-164
to MUREX/14 DME and hold, continue
climb-in-hold to 9200.

ATIS	KINGSLEY APP CON★	KINGSLEY TOWER★	GND CON	UNICOM
126.5 263.0	123.675 270.8	133.975 (CTAF) 0 257.8	121.9 348.6	122.95

REIL Rwy 25
MIRL Rwy 7-25
HIRL Rwy 14-32

CATEGORY	A	B	C	D	E
S-14	4860-3¼ 769 (800-¾)	4860-1¼ 769 (800-1¼)	4860-2¼ 769 (800-2¼)	4860-2½ 769 (800-2½)	5600-3 1505 (1600-3)
CIRCLING	4860-1 765 (800-1)	4980-1¼ 885 (900-1¼)	4980-2¾ 885 (900-2¾)	5060-3 965 (1000-3)	5600-3 1505 (1600-3)

NW-1. 08 APR 2010 to 06 MAY 2010

AL-473 (FAA)

VOR/DME or TACAN RWY 32
KLAMATH FALLS (LMT)

KLAMATH FALLS (LMT)



MISSED APPROACH: Climb to 5000 then climbing left turn to 8500 via LMT R-260 then climbing left turn to 10000 direct LMT VORTAC. (TACAN aircraft continue climb on R-260 to 10000 to GIANT/16 DME and hold East, left turns, 260 inbound.)

5000 ↑	8500 LMT R-260	10000	LMT 115.9	LMT <u>6</u>	Remain within 10 NM	
VORTAC	LMT <u>1</u>	LMT <u>4</u>	LMT <u>10</u>	7600		
	0.4	3 NM	2 NM	4 NM		
CATEGORY	A	B	C	D	E	
S-32	4500/24	408 (500-½)	4500/40 408 (500-¾)	4500/50	408 (500-1)	
CIRCLING*	4840-1 748 (800-1)	4980-1¼ 888 (900-1¼)	4980-2¾ 888 (900-2¾)	5000-3 908 (1000-3)	5500-3 1408 (1500-3)	

NW-1 08 APR 2010 to 06 MAY 2010

VORTAC LMT	APP CRS	Rwy Idg	N/A
115.9	340°	TDZE	N/A
Chan 106		Apt Elev	4092

VOR or GPS-B

KLAMATH FALLS (LMT)

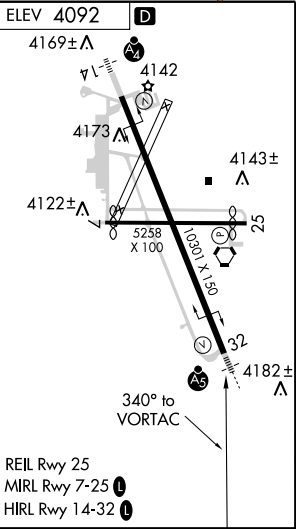
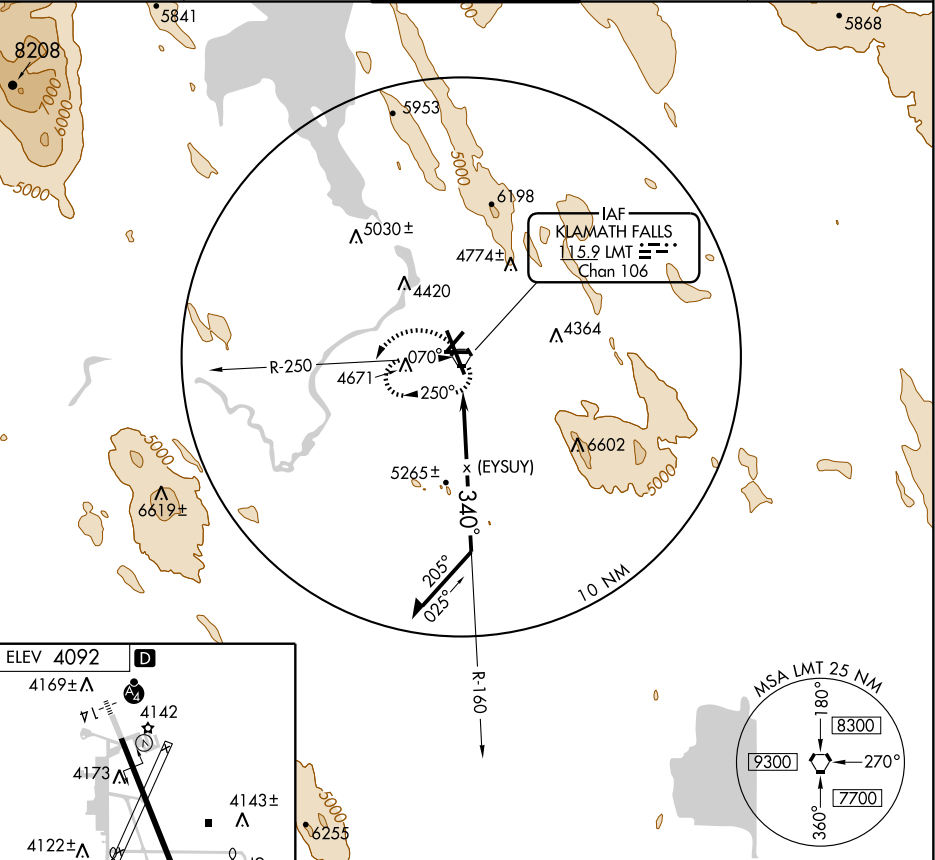
▼

▲

ASR/PAR

MISSED APPROACH: Climbing left turn to 7500 via LMT R-250, then climbing left turn to 8000 direct LMT VORTAC and hold.

ATIS	KINGSLEY APP CON★	KINGSLEY TOWER★	GND CON	UNICOM
126.5 263.0	123.675 270.8	133.975 (CTAF) 257.8	121.9 348.6	122.95



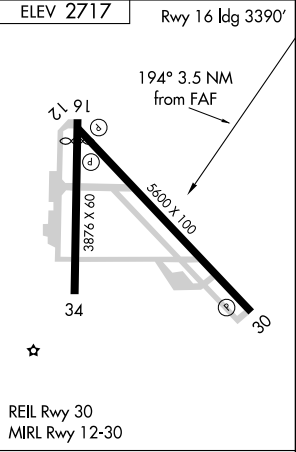
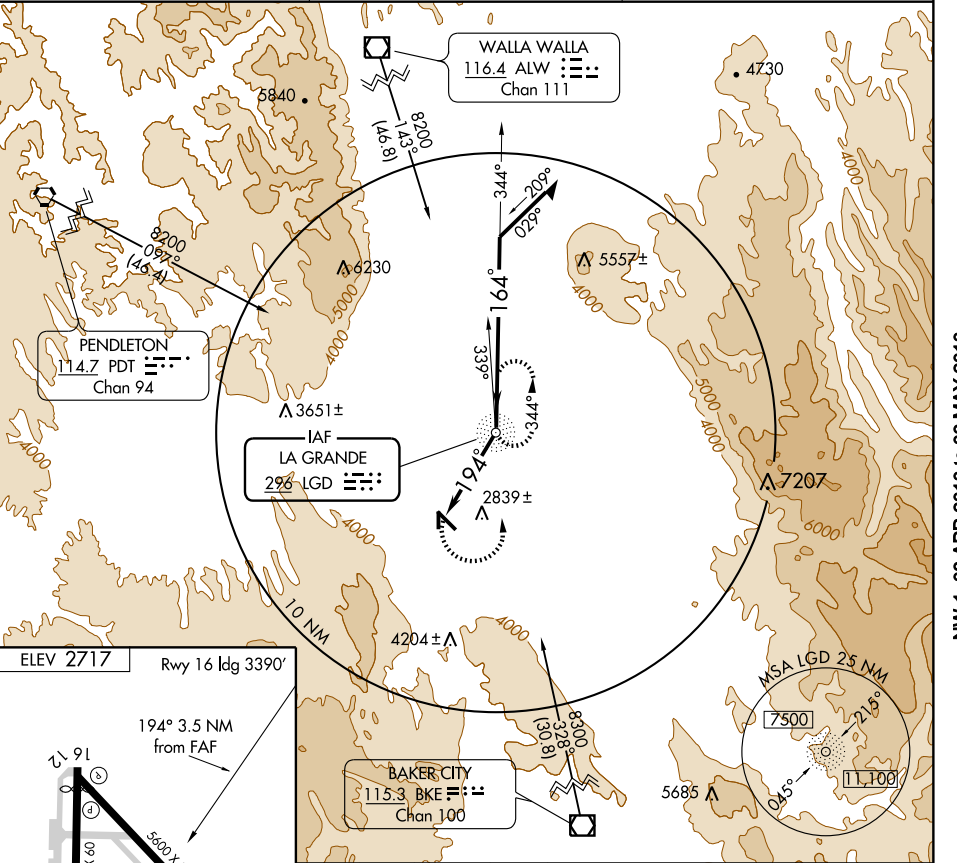
NDB LGD	APP CRS	Rwy Idg TDZE	N/A
296	194°	Apt Elev	2717

▼

▲ NA

MISSED APPROACH: Climbing left turn to 7000 direct LGD NDB and 339° bearing from LGD NDB, then right turn direct LGD NDB and hold.

AWOS-3 135,075	SEATTLE CENTER 132.6 269.35	UNICOM 122.8 (CTAF)
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7000 LGD 296

↑ LGD 339°

LGD 296

NDB*

Remain within 10 NM

344°

164°

194°

5600

6600

*Maximum entry altitude 10,000

3.5 NM

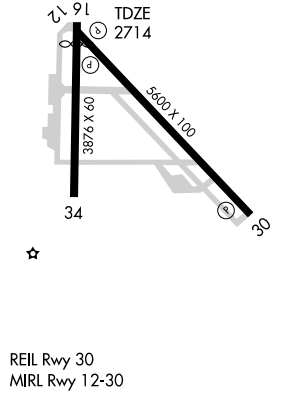
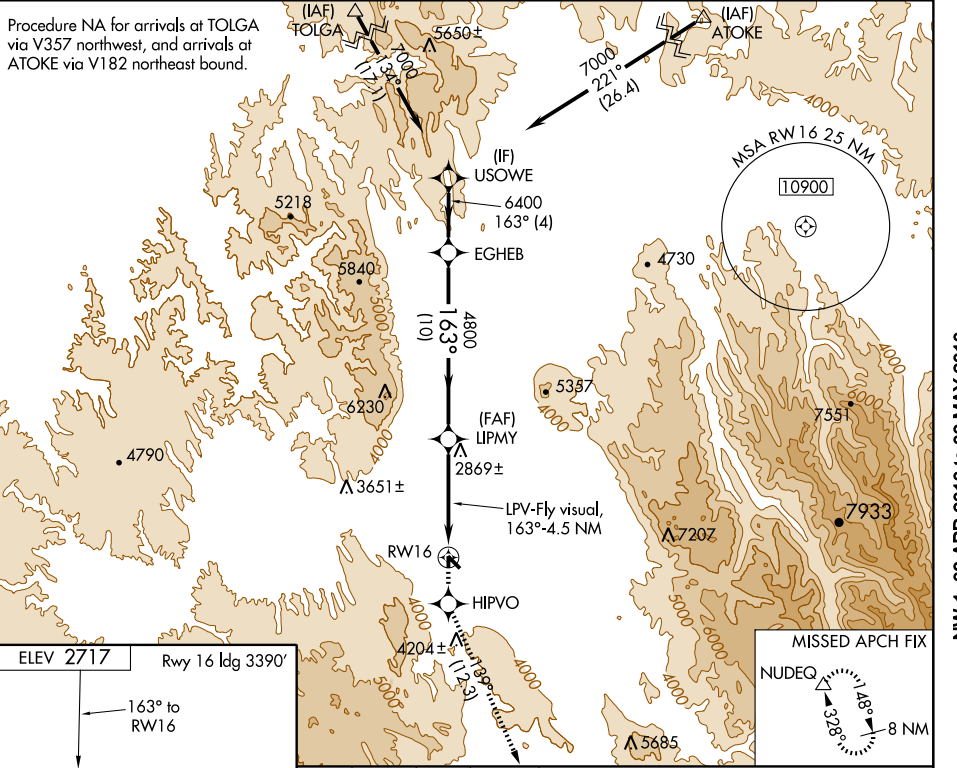
FAF to MAP 3.5 NM						CATEGORY	A	B	C	D
Knots	60	90	120	150	180	CIRCLING	4360-1¼ 1643 (1700-1¼)	4360-1½ 1643 (1700-1½)	4360-3 1643 (1700-3)	NA
Min:Sec	3:30	2:20	1:45	1:24	1:10					

NW-1. 08 APR 2010 to 06 MAY 2010

DME/DME RNP-0.3 NA.
If local altimeter setting not received procedure NA.

MISSED APPROACH: Climb to 9000 direct HIPVO and via 139° track to NUDEQ and hold, continue climb-in-hold to 9000.

AWOS-3 135.075	SEATTLE CENTER 132.6 269.35	UNICOM 122.8 (CTAF)
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9000	HIPVO	139° track	NUDEQ	Procedure Turn NA	EGHEB	USOWE
LPV, Fly visual 163° 4.5 NM RWY 16	* 5.3 NM to RWY 16	* LNAV only	7000	6400	4800	GS 3.00° TCH 35
-5.3 NM		1 NM	10 NM	4 NM		
CATEGORY	A	B	C	D		
LPV DA	4173-2	1459 (1500-2)	4173-3	1459 (1500-3)		
LNAV/VNAV DA	NA					
LNAV MDA	4440-1¼ 1726 (1800-1¼)	4440-1½ 1726 (1800-1½)	4440-3	1726 (1800-3)		
CIRCLING	4440-6 1723 (1800-6)					

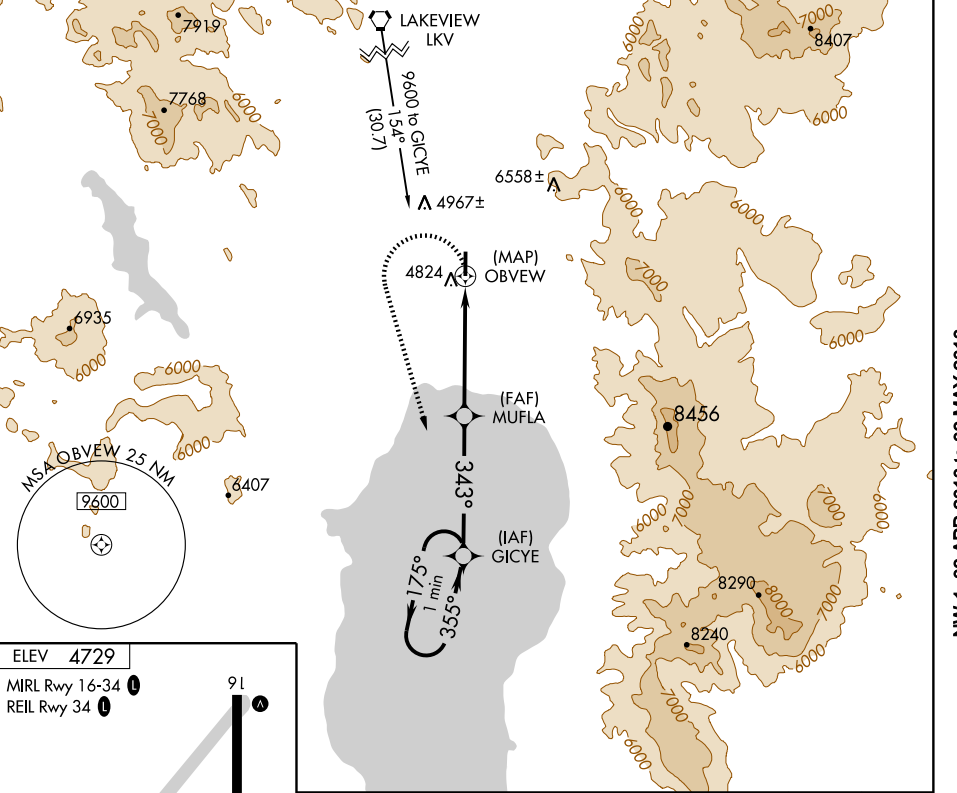
NW-1. 08 APR 2010 to 06 MAY 2010

▼

▲ NA

MISSED APPROACH: Climbing left turn to 8000, direct GICYE WP and hold.

AWOS-3 135.525	SEATTLE CENTER 127.6 346.35	UNICOM 122.8 (CTAF)
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ELEV 4729

MIRL Rwy 16-34

REIL Rwy 34

91

5306 X 100

TDZE 4725

34

4771

343° to OBVEW

One Minute Holding Pattern

GICYE

MUFLA

OBVEW MAP

8000

GICYE

175°

355°

343°

6500

3.25°

5 NM

4.1 NM

0.9

CATEGORY	A	B	C	D
S-34	5080-1	355 (400-1)	5080-1½	355 (400-1½)
CIRCLING	5160-1 431 (500-1)	5180-1 451 (500-1)	5180-1½ 451 (500-1½)	5280-2 551 (600-2)

NW-1. 08 APR 2010 to 06 MAY 2010

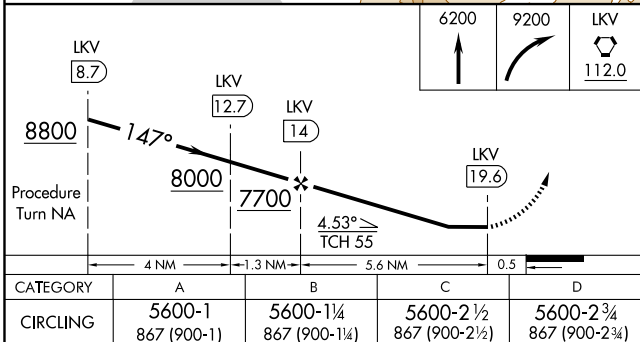
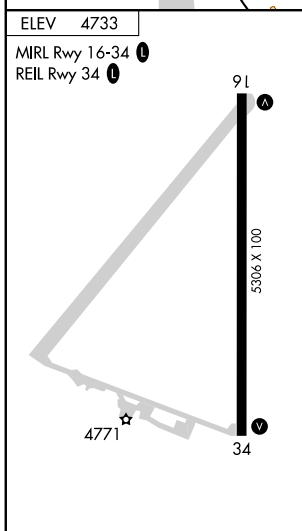
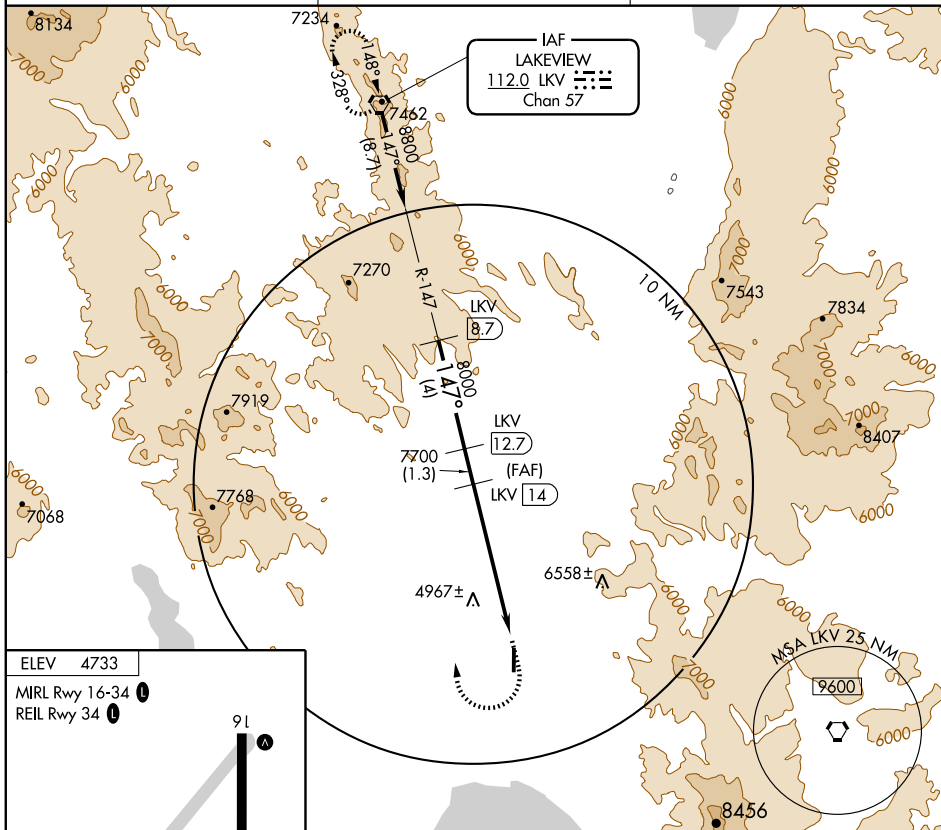
VORTAC LKV 112.0 Chan 57	APP CRS 147°	Rwy Idg TDZE Apt Elev	N/A N/A 4733
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VOR/DME-A
LAKEVIEW / LAKE COUNTY (LKV)



MISSED APPROACH: Climb to 6200 then climbing right turn to 9200 direct LKV VORTAC and hold.

AWOS-3 135.525	SEATTLE CENTER 127.6 346.35	UNICOM 122.8 (CTAF)
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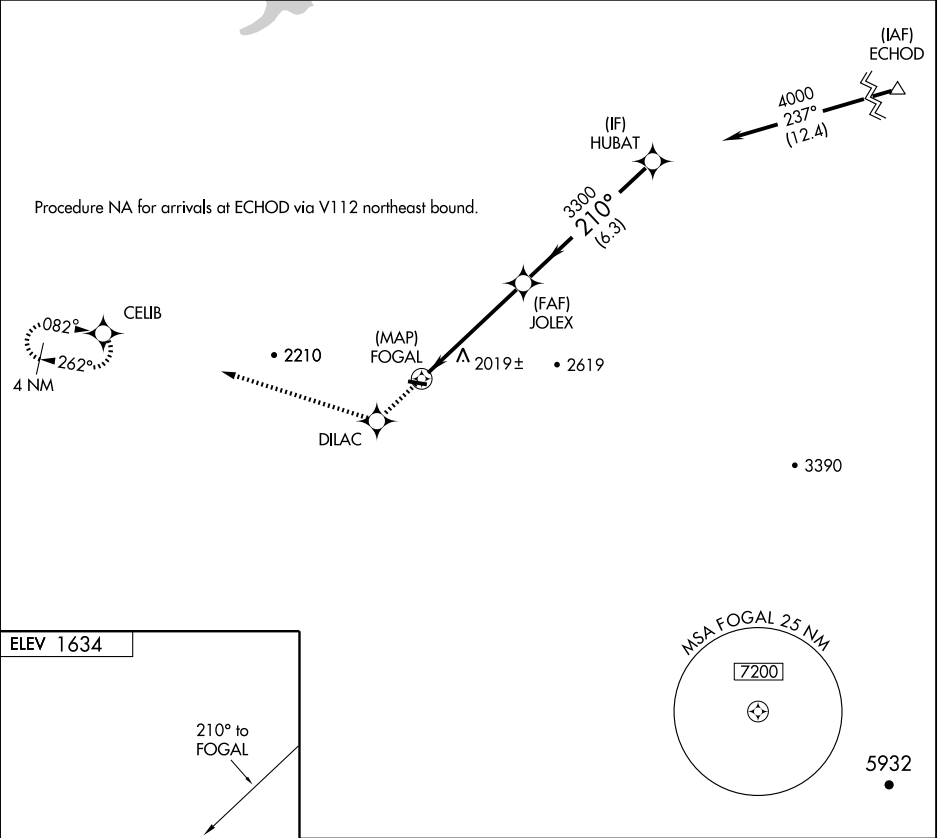
RNAV (GPS)-A
LEXINGTON (9S9)

APP CRS	Rwy Idg	N/A
210°	TDZE	N/A
	Apt Elev	1634

⚠ If local altimeter setting not received, use Hermiston altimeter setting and increase all MDAs 220 feet.
⚠ NA Procedure NA at night.
GPS or RNP- 0.3 required. DME/DME RNP- 0.3 NA.

MISSED APPROACH: Climb to 4400 direct DILAC WP and via 271° track to CELIB WP and hold.

AWOS-3 134.475	SEATTLE CENTER 132.6 269.35	CTAF 122.9 0
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ELEV 1634

210° to FOGAL

41.55 X 7.5
1.3% UP

26

4400	DILAC	271° track	CELIB	HUBAT
			JOLEX	
			FOGAL	
			3300	4000
			5 NM	6.3 NM
CATEGORY	A	B	C	D
CIRCLING	2380-1 746 (800-1)	2460-1¼ 826 (900-1¼)	2480-2½ 846 (900-2½)	2520-3 886 (900-3)

MIRL Rwy 8-26 **0**

Procedure Turn NA

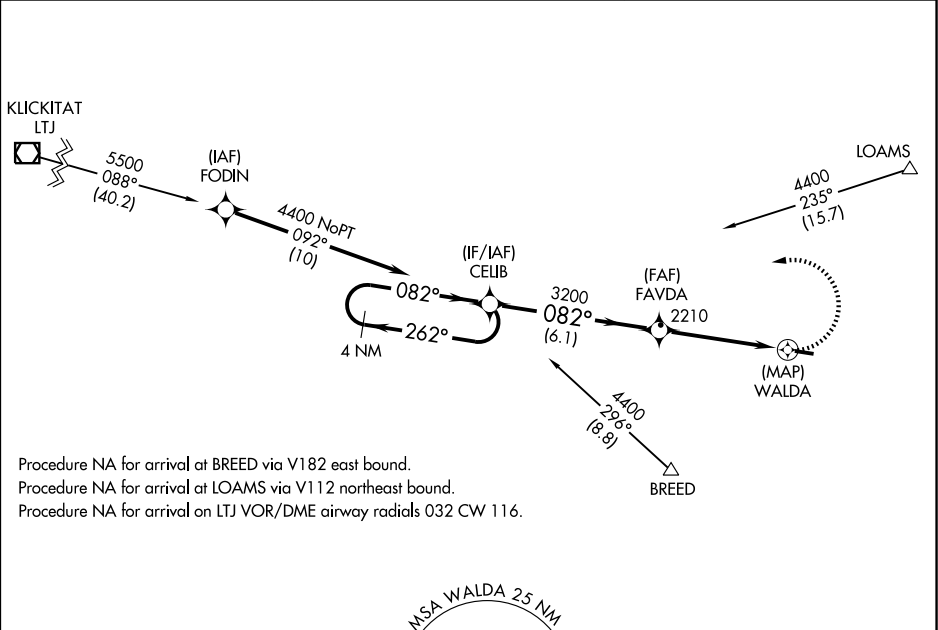
APP CRS	Rwy Idg	4155
082°	TDZE	1613
	Apt Elev	1634

RNAV (GPS) RWY 8
LEXINGTON (9S9)

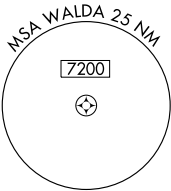
NA If local altimeter setting not received, use Hermiston altimeter setting and increase all MDAs 220 feet.
Procedure NA at night.
GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.

MISSED APPROACH: Climbing left turn to 4400 direct CELIB WP and hold.

AWOS-3 134.475	SEATTLE CENTER 132.6 269.35	CTAF 122.9
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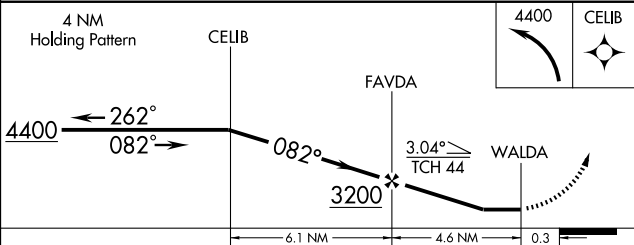
Procedure NA for arrival at BREED via V182 east bound.
Procedure NA for arrival at LOAMS via V112 northeast bound.
Procedure NA for arrival on LTJ VOR/DME airway radials 032 CW 116.



ELEV 1634

CATEGORY	A	B	C	D
LNAV MDA	2120-1	507 (500-1)	2120-1½	507 (500-1½)
CIRCLING	2380-1 746 (800-1)	2460-1¼ 826 (900-1¼)	2480-2½ 846 (900-2½)	2520-3 886 (900-3)

MIRL Rwy 8-26



CATEGORY	A	B	C	D
LNAV MDA	2120-1	507 (500-1)	2120-1½	507 (500-1½)
CIRCLING	2380-1 746 (800-1)	2460-1¼ 826 (900-1¼)	2480-2½ 846 (900-2½)	2520-3 886 (900-3)

APP CRS	Rwy Idg	N/A
341°	TDZE	N/A
	Apt Elev	2437

RNAV (GPS)-A

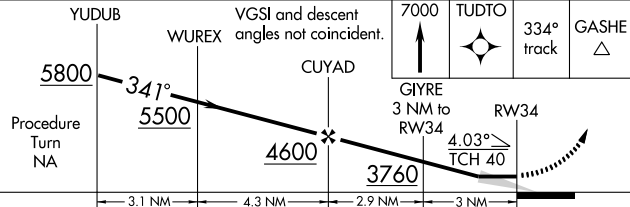
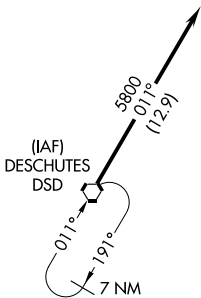
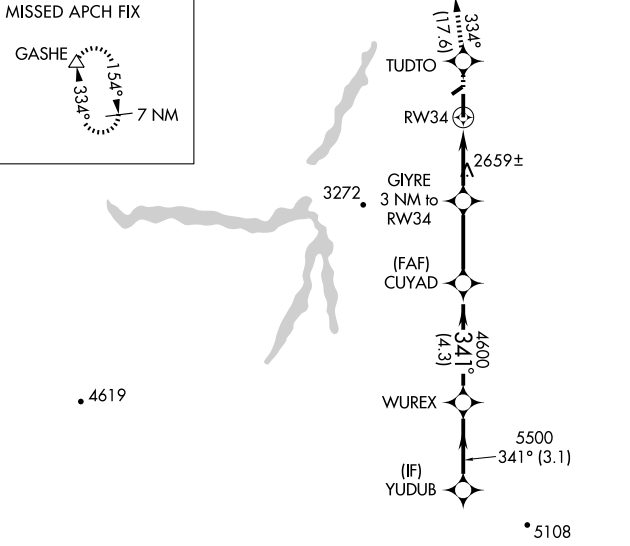
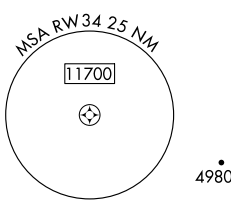
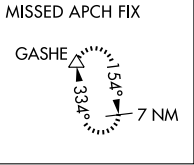
MADRAS MUNI (S33)

NA

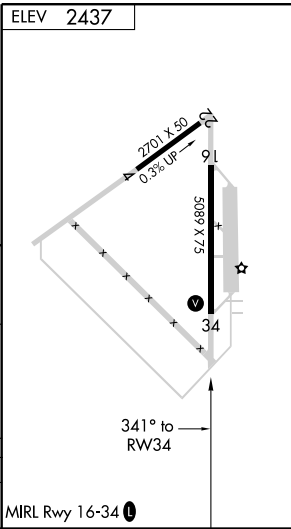
DME/DME RNP-0.3 NA.
Use Redmond altimeter setting; if not received, procedure NA.

MISSED APPROACH: Climb to 7000 direct TUDTO and via 334° track to GASHE and hold, continue climb-in-hold to 7000.

REDMOND ASOS 119.025	SEATTLE CENTER 128.15 257.75	UNICOM 122.8 (CTAF) 0
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CATEGORY	A	B	C	D
CIRCLING	3520-1¼ 1083 (1100-1¼)	3540-1½ 1103 (1200-1½)	3600-3 1163 (1200-3)	NA



LOC I-MMV	APP CRS	Rwy Idg	5420
110.9	218°	TDZE	161
		Apt Elev	163

ILS or LOC RWY 22

MC MINNVILLE MUNI (MMV)

▼

DME Required.

▲

When local altimeter setting not received, use Aurora State altimeter setting and increase all DA and MDA 60 feet. Increase all visibility ¼ mile.

MALS R

MISSED APPROACH: Climb to 900 then climbing right turn to 3000 via heading 069° and UBG VOR/DME R-204 to LUSEY/UBG VOR/DME 6 DME and hold, continue climb-in-hold to 3000.

ASOS	PORTLAND APP CON	SEATTLE CENTER	McMINNVILLE RADIO	CLNC DEL	UNICOM
135.675	126.0 284.6 (NORTH)	125.8 291.7 (SOUTH)	122.45	118.35	123.0 (CTAF) 0

Procedure NA for arrivals on BTG VORTAC
airway radials 160 CW 175.

2704

IAF BATTLEGROUND 116.6 BTG Chan 113

TOCBU INT BTG 24.8

3100 NoPT 185° (24.8)

R-185

R-054

2900 185° (4.9)

3800 111° (4.4)

NEWBERG 117.4 UBG Chan 121

BTG R-196

LUSEY UBG 6

R-204

364±

1100

1900

218° (3.8)

2500

218° (2.5)

BTG 29.7

UNECE INT

LIYEV INT

2900 NoPT 291° (6.1)

(IF/IAF) OZIER INT UBG 4.4

BTG 29.7

(IAF) RAWER

LOCALIZER I-MMV 110.9

886

10 NM

MSA UBG 25 NM

170°

3100

260°

3600

350°

900	3000	UBG R-204 117.4	LUSEY △	UNECE INT	OZIER INT UBG 4.4	One Minute Holding Pattern
↑	↷ 069°					
		LIYEV INT				
		1900				
		218°				
		038°				
		2500				
		1900				
		5.2 NM	3.8 NM	2.5 NM		
CATEGORY	A	B	C	D		
S-ILS 22	361-½ 200 (200-½)					
S-LOC 22	600-½ 439 (500-½)		600-¾ 439 (500-¾)		600-1 439 (500-1)	
CIRCLING	640-1 477 (500-1)		760-1½ 597 (600-1½)		880-2¼ 717 (800-2¼)	

GS 3.00° TCH 57

ELEV 163

218° 5.2 NM from FAF

5420 X 150

4676 X 150

35

228

231

REIL Rwy 4 0

HIRL Rwy 4-22 0

FAF to MAP 5.2 NM

Knots	60	90	120	150	180
Min:Sec	5:12	3:28	2:36	2:05	1:44

NW-1. 08 APR 2010 to 06 MAY 2010

APP CRS	Rwy Idg	5420
038°	TDZE	161
	Apt Elev	163

RNAV (GPS) RWY 4

MC MINNVILLE MUNI (MMV)

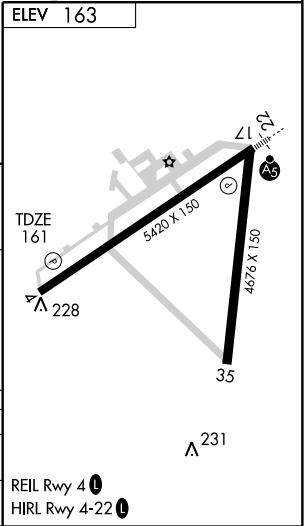
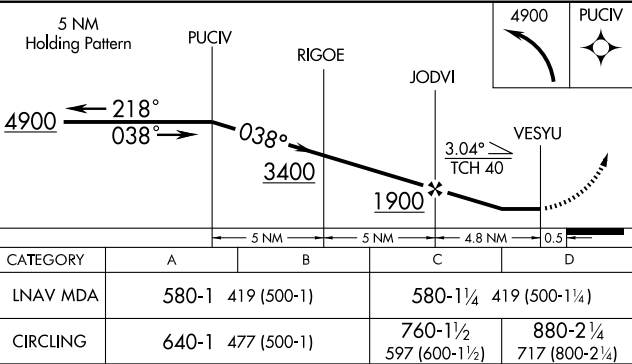
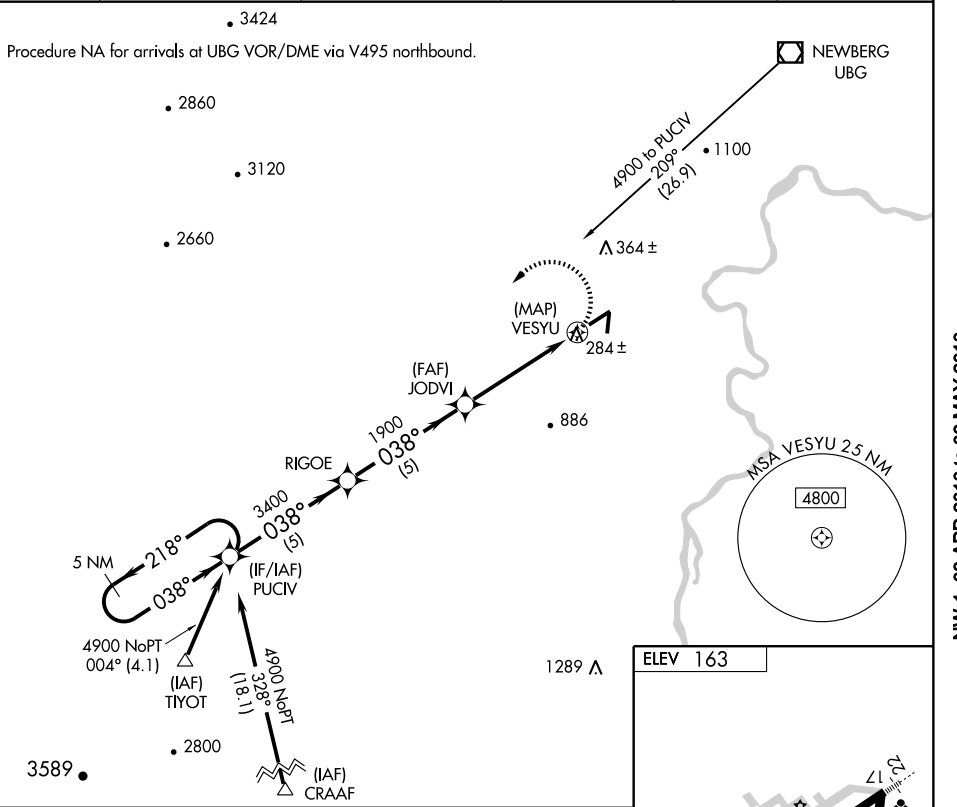
▼

▲

DME/DME RNP- 0.3 NA. Visibility reduction by helicopters NA.
When local altimeter setting not received, use Aurora State altimeter setting and increase all MDA 60 feet and all visibility ¼ mile.

MISSED APPROACH: Climbing left turn to 4900 direct PUCIV and hold, continue climb-in-hold to 4900.

ASOS	PORTLAND APP CON	SEATTLE CENTER	McMINNVILLE RADIO	CLNC DEL	UNICOM
135.675	126.0 284.6 (NORTH)	125.8 291.7 (SOUTH)	122.45	118.35	123.0 (CTAF) ①



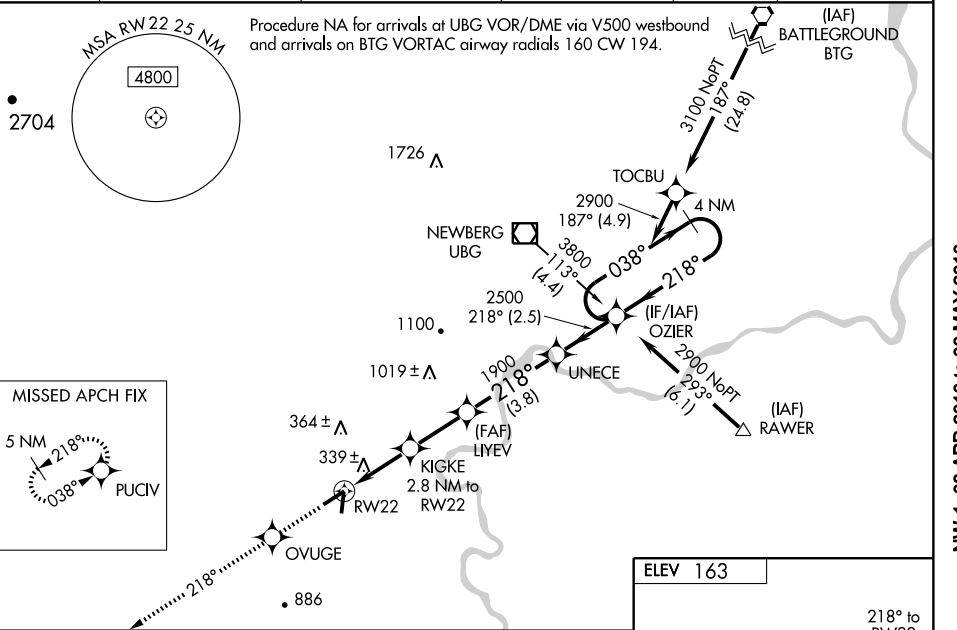
WAAS CH 50309 W22A	APP CRS 218°	Rwy Idg TDZE Apt Elev	5420 161 163
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▼ For inoperative MALSR, increase LPV all Cats. visibility to 1.
▲ Baro-VNAV NA when using Aurora State altimeter setting.
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 48°C (118°F). DME/DME RNP-0.3 NA.
For inoperative MALSR when using Aurora State altimeter setting increase LPV visibility all Cats. to 1 ¼. VDP NA when using Aurora State altimeter setting.
When local altimeter setting not received, use Aurora State altimeter setting and increase all DA and MDA 60 feet, increase all visibility ¼ mile.

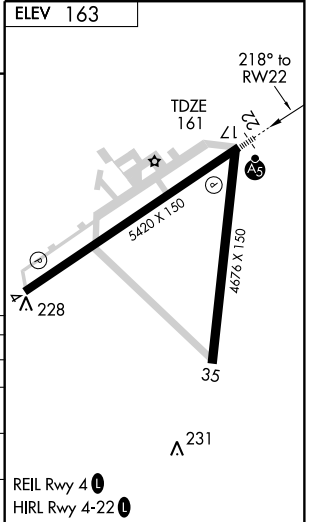
MALSR

MISSED APPROACH: Climb to 4900 direct OVUGE then via 218° track to PUCIV and hold, continue climb-in-hold to 4900.

ASOS 135.675	PORTLAND APP CON 126.0 284.6 (NORTH)	SEATTLE CENTER 125.8 291.7 (SOUTH)	McMINNVILLE RADIO 122.45	CLNC DEL 118.35	UNICOM 123.0 (CTAF) 1
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4900	OVUGE	218° track	PUCIV
* LNAV only			
KIGKE 2.8 NM to RW22			
LYEYV 1900			
* 1.7 NM to RW22			
RW22 1100*			
2500			
UNECE			
OZIER			
4 NM Holding Pattern			
038° → 2900			
← 218°			
GS 3.00° TCH 57			
CATEGORY	A	B	D
LPV DA	474-1½ 313 (400-½)		
LNAV/VNAV DA	633-1¼ 472 (500-1¼)		
LNAV MDA	740-½ 579 (600-½)	740-1 579 (600-1)	740-1¼ 579 (600-1¼)
CIRCLING	740-1 577 (600-1)	760-1½ 597 (600-1½)	880-2¼ 717 (800-2¼)



NW-1. 08 APR 2010 to 06 MAY 2010

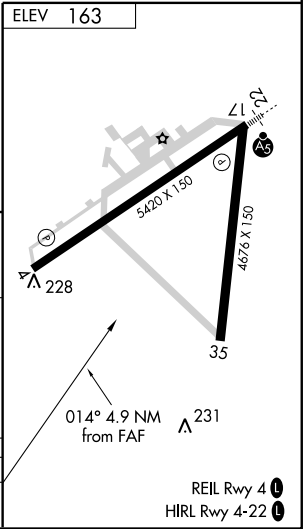
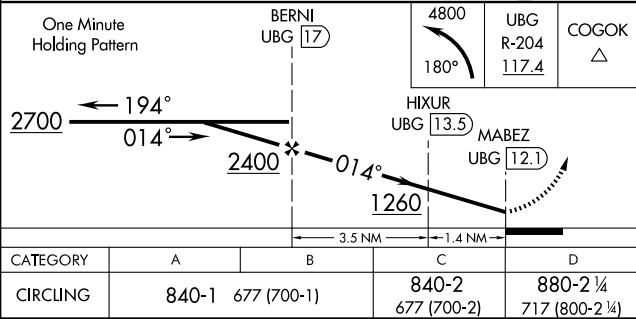
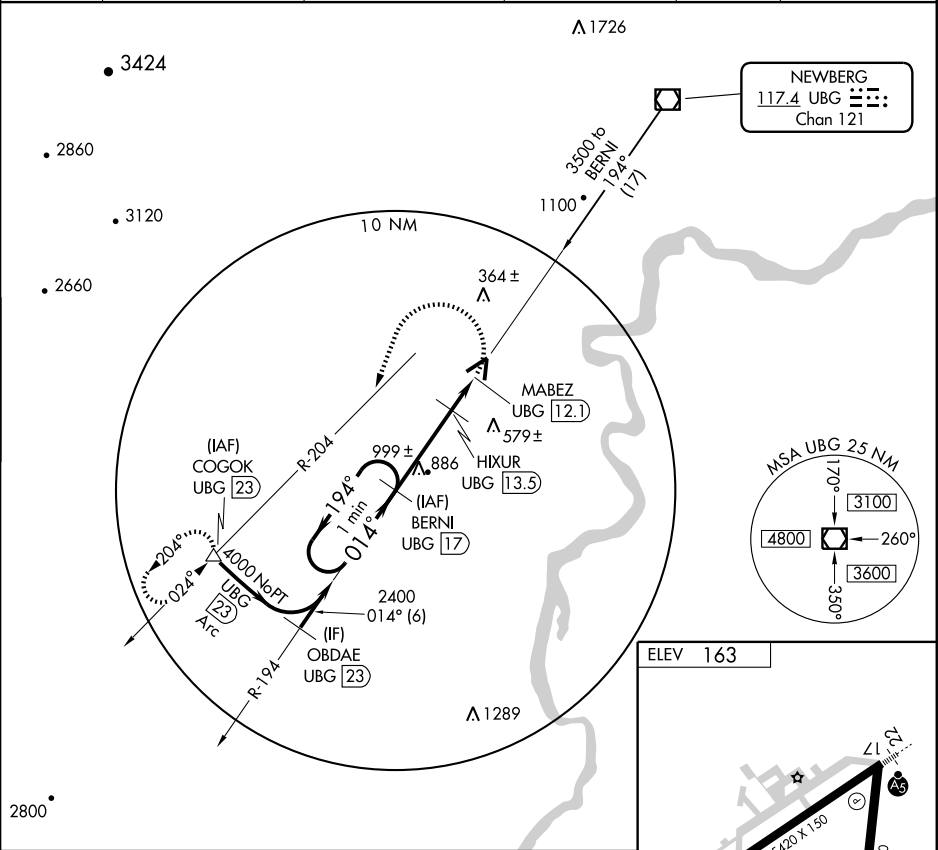
VOR/DME UBG	APP CRS	Rwy Idg TDZE	N/A
117.4	014°		N/A
Chan 121		Apt Elev	163

VOR/DME-B
MC MINNVILLE MUNI (MMV)

⚠ When local altimeter setting not received use Aurora State altimeter setting and increase all MDA 60 feet and all visibility ¼ mile.

MISSED APPROACH: Climbing left turn to 4800 via heading 180° and UBG VOR/DME R-204 to COGOK/UBG 23 DME and hold, continue climb-in-hold to 4800.

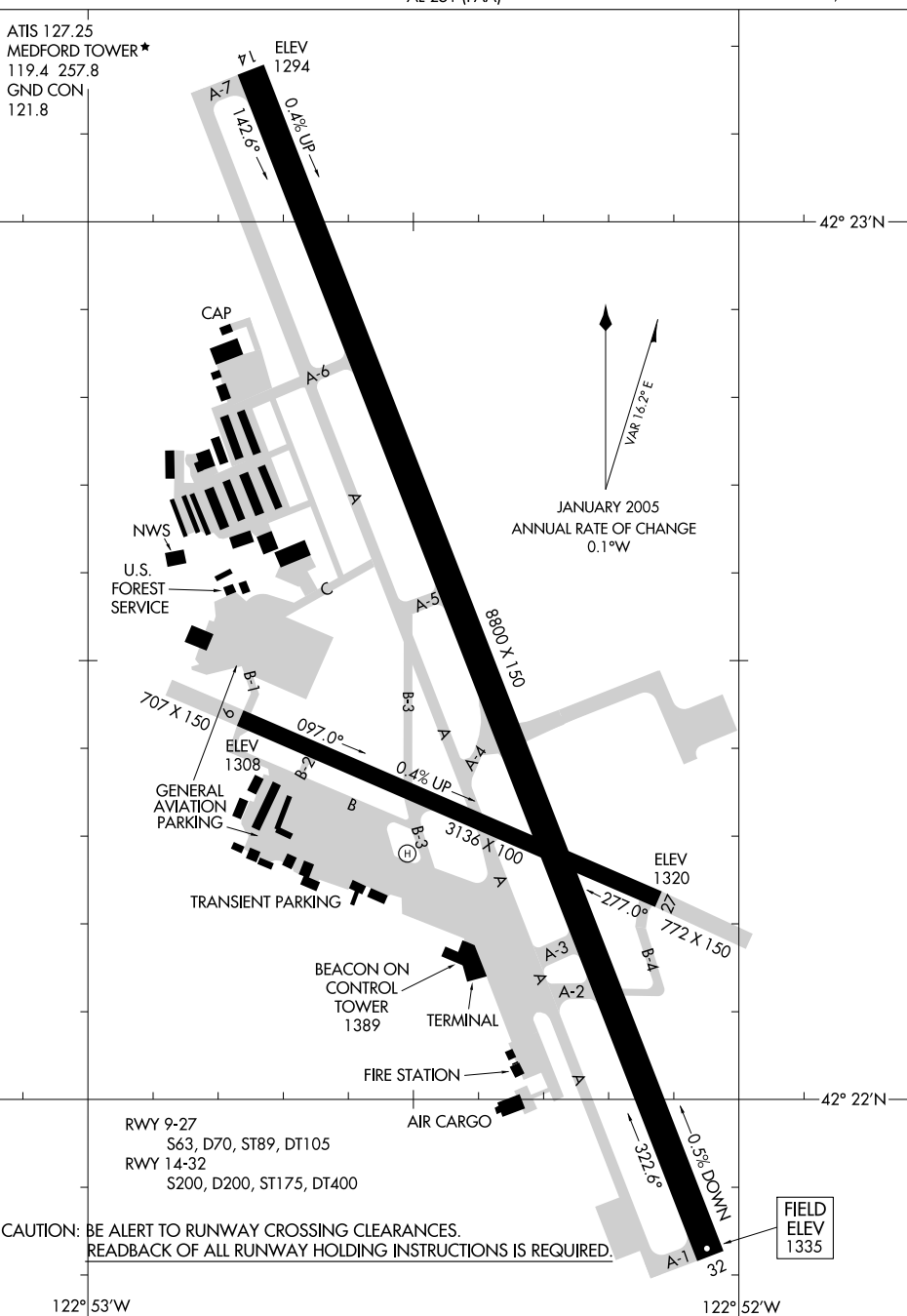
ASOS 135.675	PORTLAND APP CON 126.0 284.6 (NORTH)	SEATTLE CENTER 125.8 291.7 (SOUTH)	McMINNVILLE RADIO 122.45	CLNC DEL 118.35	UNICOM 123.0 (CTAF) 0
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AIRPORT DIAGRAM

MEDFORD/ ROGUE VALLEY INTL-MEDFORD (MFR)
AL-251 (FAA) MEDFORD, OREGON

ATIS 127.25
MEDFORD TOWER ★
119.4 257.8
GND CON
121.8

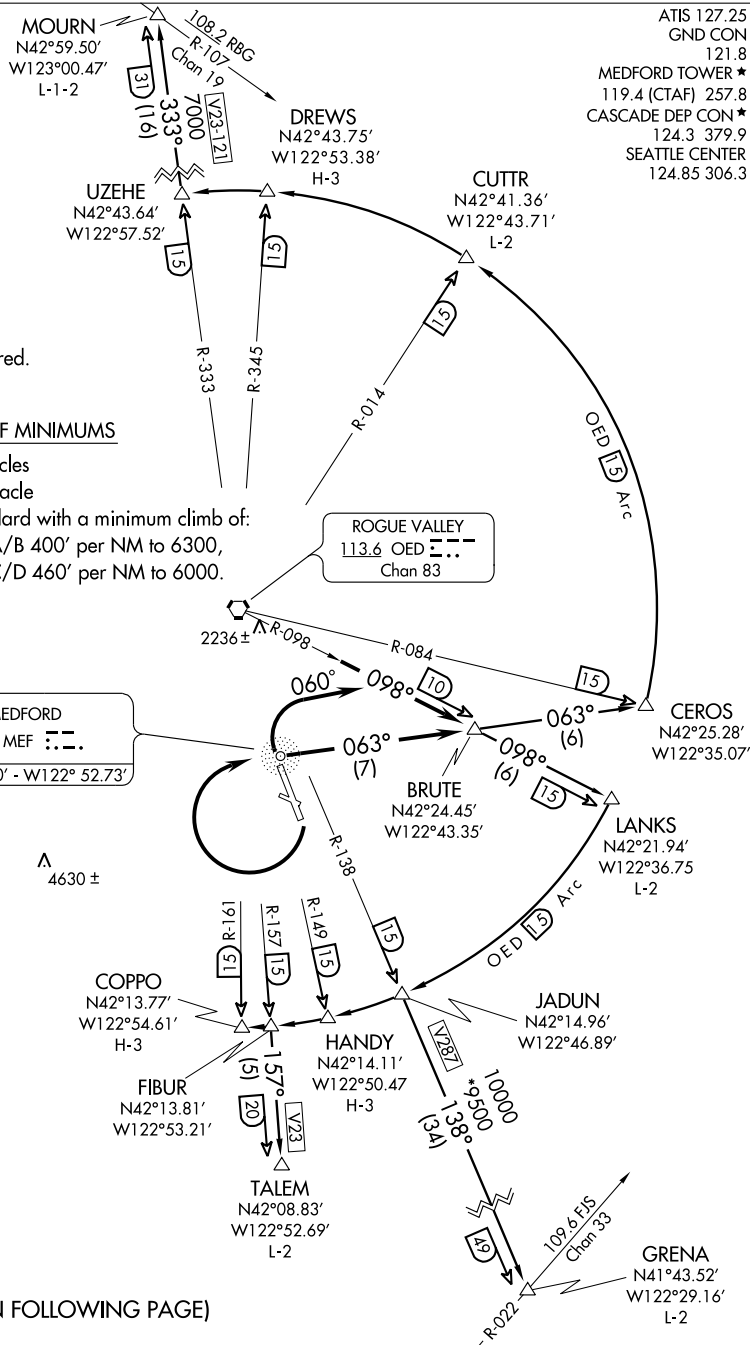


NW-1, 08 APR 2010 to 06 MAY 2010

CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

RWY 9-27
S63, D70, ST89, DT105
RWY 14-32
S200, D200, ST175, DT400

BRUTE FIVE DEPARTURE

MEDFORD/ROGUE VALLEY INTL-MEDFORD (MF'R)
SL-251 (FAA) MEDFORD, OREGON

(NARRATIVE ON FOLLOWING PAGE)

BRUTE FIVE DEPARTURE



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 14: Climbing right turn direct to MEF NDB, depart MEF NDB 063° bearing outbound to BRUTE INT. Thence. . . .

TAKE-OFF RUNWAY 32: Climbing right turn via 060° heading and OED R-098 to BRUTE INT. Thence. . . .

. . . . via (transition) or (assigned route). Maintain 11000 or assigned altitude.

COPPO TRANSITION (BRUTE5.COPPO) : From over BRUTE INT via OED R-098 to LANKS INT. Turn right and proceed via the OED 15 DME Arc to COPPO DME.

CUTTR TRANSITION (BRUTE5.CUTTR) : From over BRUTE INT via MEF NDB bearing 063° to CEROS INT. Turn left and proceed via the OED 15 DME Arc to CUTTR DME.

DREWS TRANSITION (BRUTE5.DREWS) : From over BRUTE INT via MEF NDB bearing 063° to CEROS INT. Turn left and proceed via the OED 15 DME Arc to DREWS DME.

GRENA TRANSITION (BRUTE5.GRENA) : From over BRUTE INT via OED R-098 to LANKS INT. Turn right and proceed via the OED 15 DME Arc to JADUN DME. Then via OED R-138 to GRENA INT.

HANDY TRANSITION (BRUTE5.HANDY) : From over BRUTE INT via OED R-098 to LANKS INT. Turn right and proceed via the OED 15 DME Arc to HANDY DME.

LANKS TRANSITION (BRUTE5.LANKS) : From over BRUTE INT via OED R-098 to LANKS INT.

MOURN TRANSITION (BRUTE5.MOURN) : From over BRUTE INT via MEF NDB bearing 063° to CEROS INT. Turn left and proceed via the OED 15 DME Arc to UZEHE DME. Then via OED R-333 to MOURN INT.

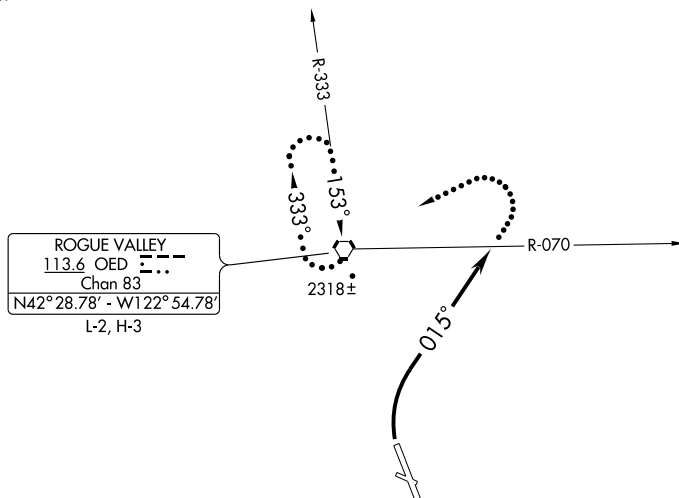
TALEM TRANSITION (BRUTE5.TALEM) : From over BRUTE INT via OED R-098 to LANKS INT. Turn right and proceed via the OED 15 DME Arc to FIBUR DME. Then via OED R-157 to TALEM DME.

UZEHE TRANSITION (BRUTE5.UZEHE) : From over BRUTE INT via MEF NDB bearing 063° to CEROS INT. Turn left and proceed via the OED 15 DME Arc to UZEHE DME.

EAGLE THREE DEPARTURE

MEDFORD/ROGUE VALLEY INTL-MEDFORD (MF'R)
SL-251 (FAA) MEDFORD, OREGON

ATIS 127.25
GND CON
121.8
MEDFORD TOWER ★
119.4 257.8
CASCADE DEP CON ★
124.3 379.9
SEATTLE CENTER
124.85 306.3

TAKE-OFF MINIMUMS

RWY 32: 1700-3 or standard with minimum climb
of 300' per NM to 3000'.

RWYS 9, 14, and 27: Not authorized for this departure procedure.

ATC climb rate of 410' per NM until passing 6300 required.



DEPARTURE ROUTE DESCRIPTION

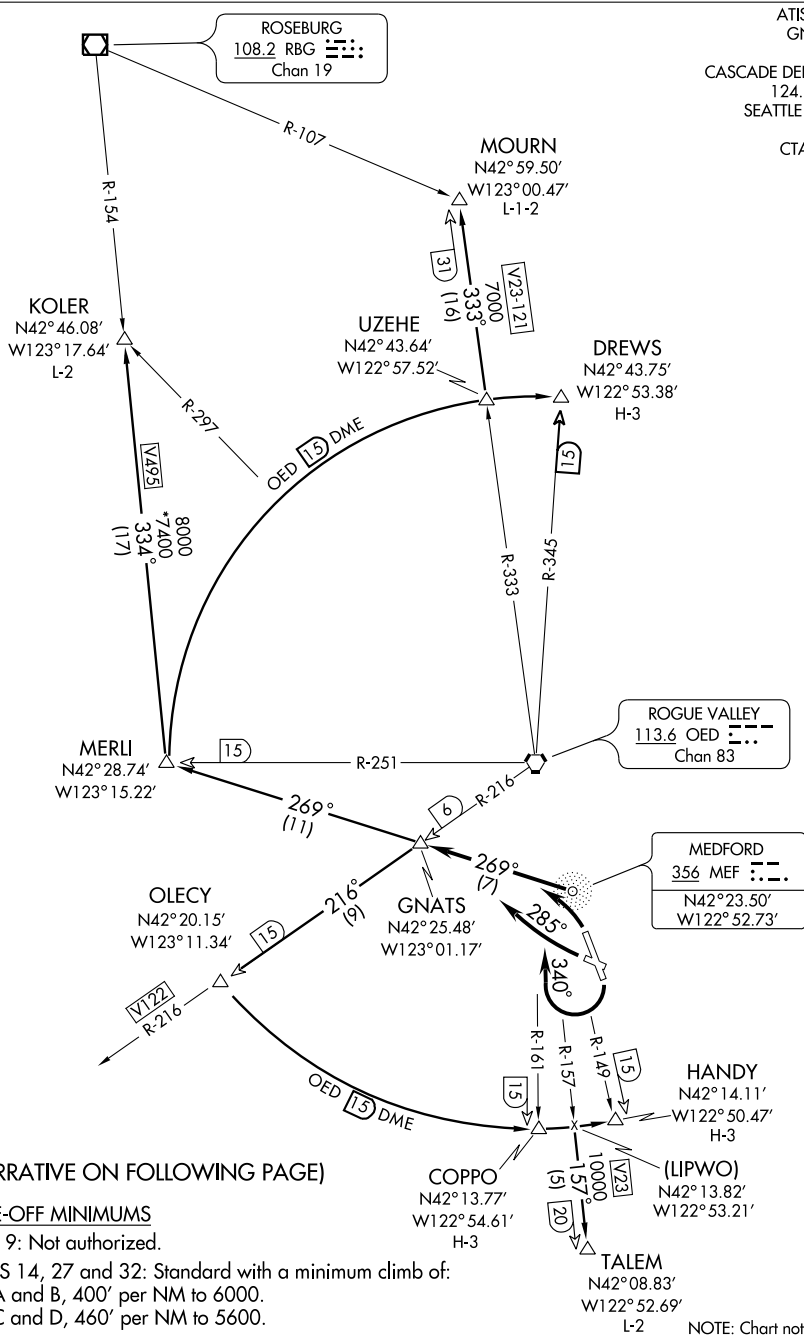
TAKE-OFF RUNWAY 32: Climbing right turn to heading 015°, maintain 11000' or assigned altitude, expect radar vectors to assigned route.
Expect filed altitude/flight level five minutes after departure.

LOST COMMUNICATIONS: If no contact with ATC crossing the OED R-070, turn left, proceed direct OED VORTAC, continue climb in holding pattern (NW, right turn, 153° inbound) to minimum crossing altitude/minimum enroute altitude before proceeding on course.

GNATS THREE DEPARTURE

SL-251 (FAA)

MEDFORD, OREGON



NOTE: Chart not to scale.

NW-1. 08 APR 2010 to 06 MAY 2010

GNATS THREE DEPARTURE

SL-251 (FAA)

MEDFORD, OREGON



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 14: Climbing right turn via 340° heading and MEF NDB 269° bearing outbound to GNATS INT. Thence. . .

TAKE-OFF RUNWAY 27: Climbing right turn via 285° heading and MEF NDB 269° bearing outbound to GNATS INT. Thence. . .

TAKE-OFF RUNWAY 32: Climbing left turn via MEF NDB 269° bearing outbound to GNATS INT. Thence. . .

. . . via (transition) or (assigned route). Maintain 10,000' or assigned lower altitude.

COPPO TRANSITION (GNATS3.COPPO): From over GNATS INT via OED R-216 to OLECY INT, then via the OED 15 DME Arc to COPPO DME.

DREWS TRANSITION (GNATS3.DREWS): From over GNATS INT via the MEF NDB 269° bearing to MERLI INT, then via the OED 15 DME Arc to DREWS DME.

HANDY TRANSITION (GNATS3.HANDY): From over GNATS INT via the OED R-216 to OLECY INT, then via the OED 15 DME Arc to HANDY DME.

KOLER TRANSITION (GNATS3.KOLER): From over GNATS INT via MEF NDB 269° bearing to MERLI INT, then via RBG R-154 to KOLER INT.

MOURN TRANSITION (GNATS3.MOURN): From over GNATS INT via MEF NDB 269° bearing to MERLI INT, then via the OED 15 DME Arc to intercept OED R-333 to MOURN INT.

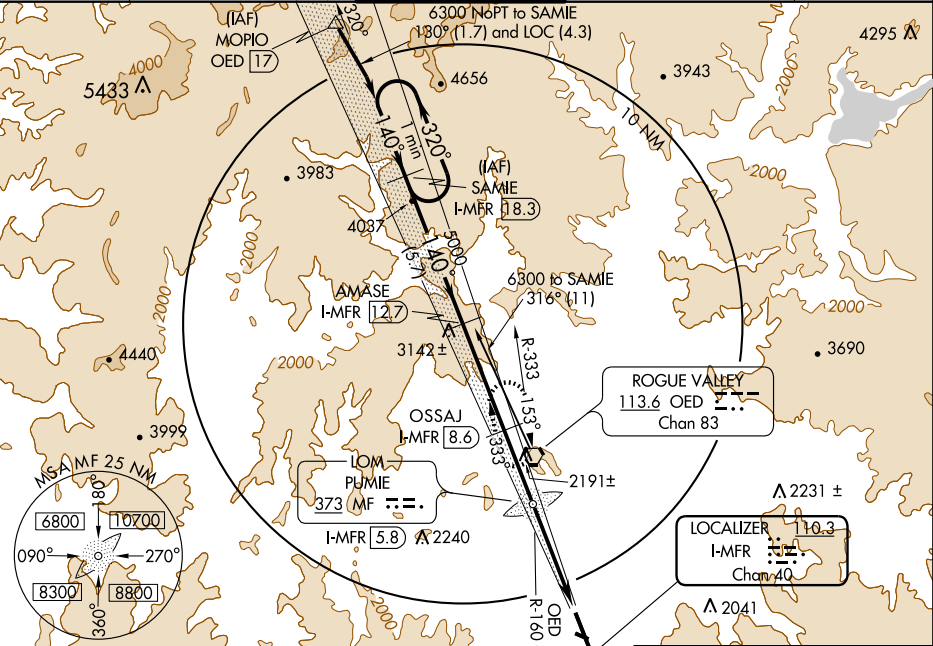
TALEM TRANSITION (GNATS3.TALEM): From over GNATS INT via OED R-216 to OLECY INT, then via the OED 15 DME Arc to intercept OED R-157 to TALEM DME.

LOC/DME I-MFR	APP CRS	Rwy Idg	8800
110.3	140°	TDZE	1303
Chan 40		Apt Elev	1335

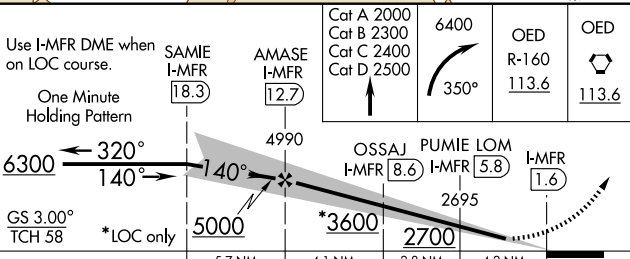
For inoperative MALS, increase S-ILS 14 CAT B visibility to RVR 6000, CAT C visibility to 1½ mile, and CAT D visibility to 2 miles.

MISSED APPROACH: Cat A climb to 2000; Cat B climb to 2300; Cat C climb to 2400; Cat D climb to 2500, then climbing right turn to 6400 via heading 350° and OED R-160 to OED VORTAC and hold, continue climb-in-hold to 6400.

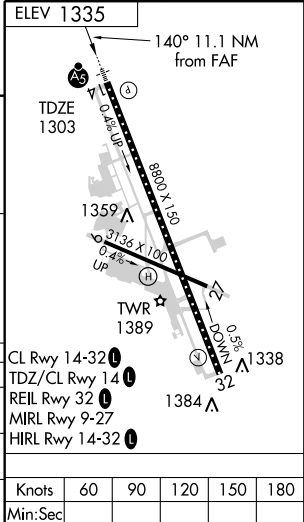
ATIS	CASCADE APP CON*	MEDFORD TOWER*	GND CON	UNICOM
127.25	124.3 379.9	119.4 (CTAF) 0 257.8	121.8	122.95



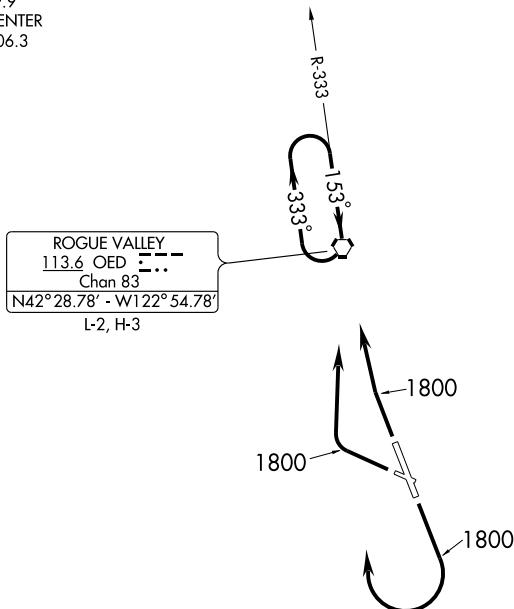
DME or RADAR REQUIRED FOR PROCEDURE ENTRY



CATEGORY	A	B	C	D
S-ILS 14	1553/24 250 (300-½)	1634/40 331 (300-¾)	1753/50 450 (500-1)	1862-1½ 559 (600-1½)
S-LOC 14	1640/24 337 (400-½)	1800/24 497 (500-½)	1920/60 617 (600-1¼)	2000-1¼ 697 (700-1¾)
CIRCLING	2000-1	665 (700-1)	2000-1¼ 665 (700-1¾)	2140-2½ 805 (900-2½)



ATIS 127.25
GND CON
121.8
MEDFORD TOWER ★
119.4 257.8
CASCADE DEP CON ★
124.3 379.9
SEATTLE CENTER
124.85 306.3



TAKE-OFF MINIMUMS

RWY 9: Not authorized.

RWY 14: Standard with a minimum climb of:

Cats A/B, 270' per NM to 3100', Cats C/D, 440' per NM to 4900.

RWY 27: Standard with minimum climb of 360' per NM to 3600.

RWY 32: Standard with a minimum climb of 300' per NM to 3000.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 9: Not authorized.

TAKE-OFF RUNWAYS 14 and 27: Climb runway heading to 1800 then turn right. Thence. . . .

TAKE-OFF RUNWAY 32: Climb runway heading to 1800. Thence. . . .

. . . . climb direct to the OED VORTAC. Continue climb in OED holding pattern (NW, right turn, 153° inbound) at or above 7000' before proceeding on course.

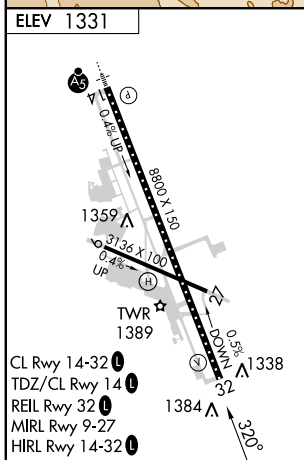
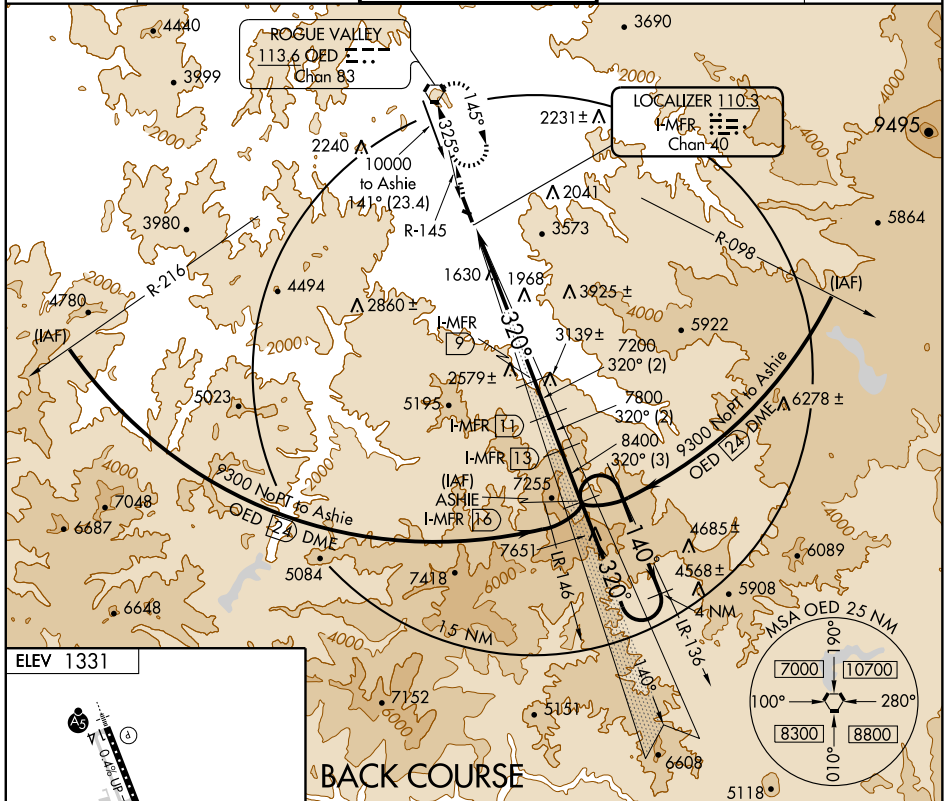
LOC/DME I-MFR 110.3 Chan 40	APP CRS 320°	Rwy Idg TDZE Apt Elev	N/A N/A 1331
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LOC/DME BC-B

MEDFORD/ROGUE VALLEY INTL-MEDFORD (MFR)

<p>▼ ▲</p>		<p>MISSED APPROACH: Climb to 7600 direct OED VORTAC and hold, continue climb-in-hold to 7600.</p>	
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ATIS 127.25	CASCADE APP CON* 124.3 379.9	MEDFORD TOWER* 119.4 (CTAF) 0 257.8	GND CON 121.8	UNICOM 122.95
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Knots	60	90	120	150	180
Min:Sec					

<p>7600 OED 113.6</p>		<p>ASHIE I-MFR 116</p>		<p>4 NM Holding Pattern</p>	
<p>Disregard glide slope indications</p>		<p>I-MFR 9</p>		<p>I-MFR 11</p>	
<p>I-MFR 0.5</p>		<p>I-MFR 13</p>		<p>Use I-MFR DME when on Localizer Course</p>	
<p>0.6 8.5 NM 2 NM 2 NM 3 NM</p>		<p>7200 7800 8400 9300</p>		<p>140° 320°</p>	
CATEGORY	A	B	C	D	
CIRCLING	3540-1¼ 2209 (2300-1¼)	3540-1½ 2209 (2300-1½)	3540-3	2209 (2300-3)	

APP CRS
325°

Rwy Idg
TDZE
Apt Elev

N/A
N/A
1335

RNAV (GPS)-D

MEDFORD/ROGUE VALLEY INTL-MEDFORD (MFR)



DME/DME RNP-0.3 not authorized.

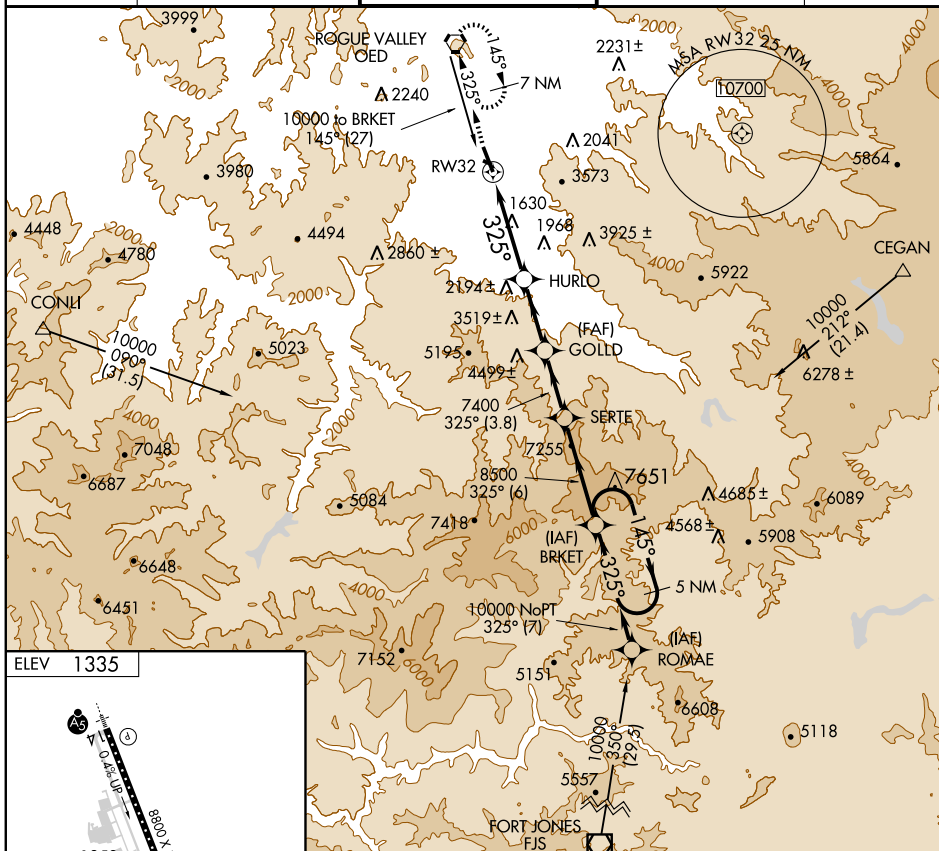
MISSED APPROACH: Climb to 7800 direct OED VORTAC and hold, continue climb-in-hold to 7800.

ATIS
127.25

CASCADE APP CON*
124.3 379.9

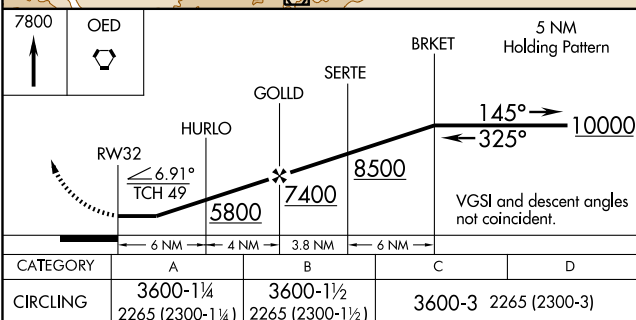
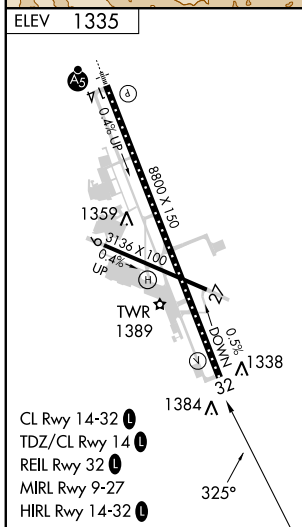
MEDFORD TOWER*
119.4 (CTAF) 0 257.8

GND CON
121.8

UNICOM
122.95


NW-1, 08 APR 2010 to 06 MAY 2010

ELEV 1335



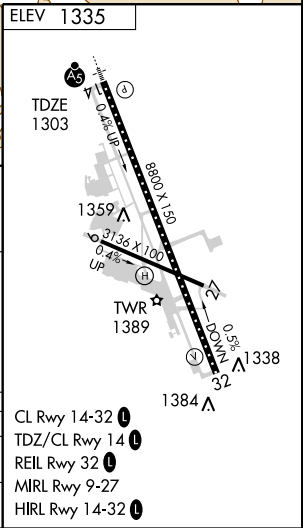
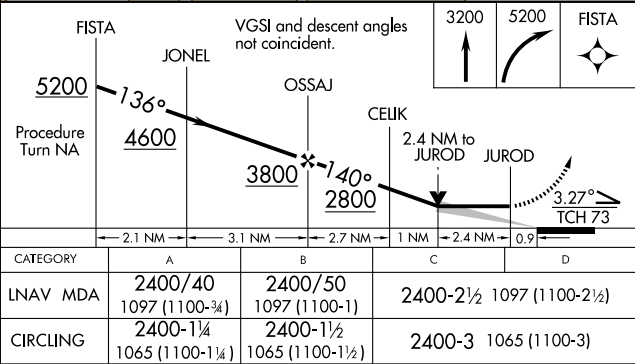
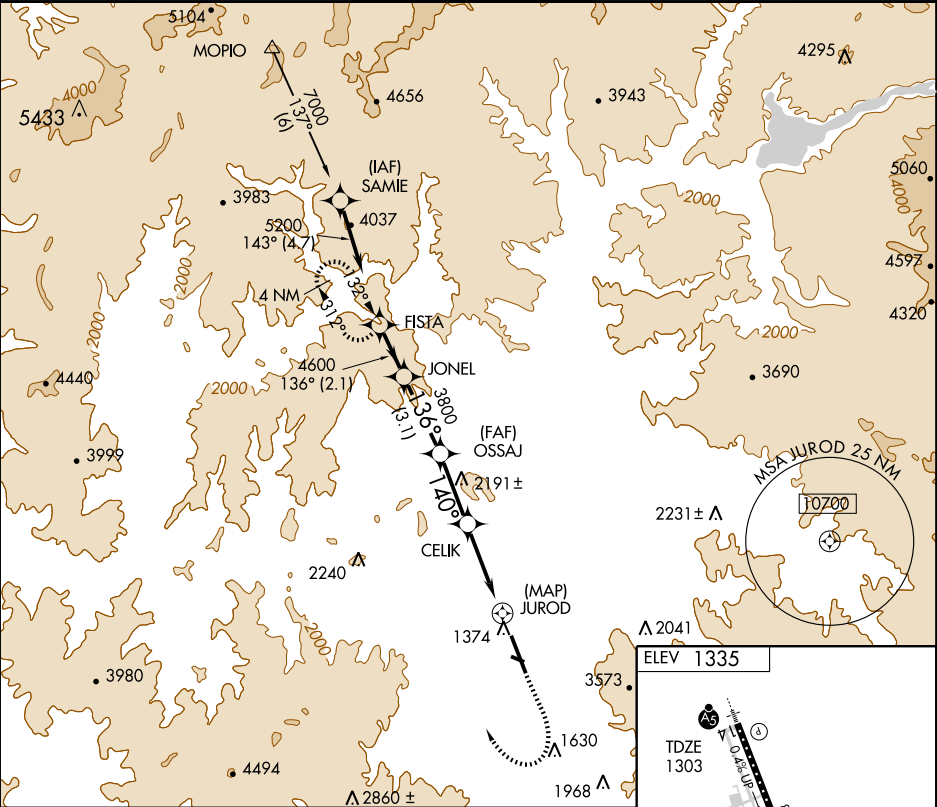
APP CRS	Rwy Idg	8800
140°	TDZE	1303
	Apt Elev	1335

RNAV (GPS) RWY 14

MEDFORD/ROGUE VALLEY INTL-MEDFORD (MFR)

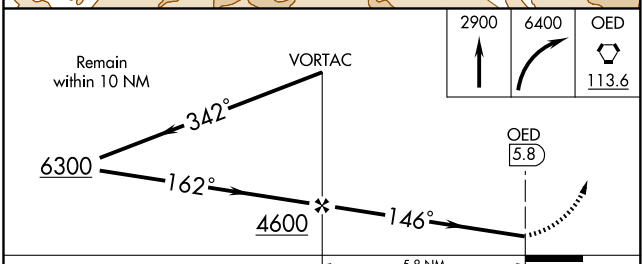
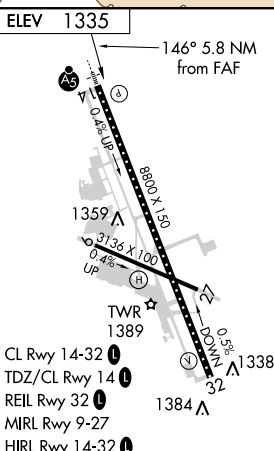
	DME/DME RNP-0.3 NA.		MISSED APPROACH: Climb to 3200 then climbing right turn to 5200 direct FISTA WP and hold.
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ATIS 127.25	CASCADE APP CON* 124.3 379.9	MEDFORD TOWER* 119.4 (CTAF) 0 257.8	GND CON 121.8	UNICOM 122.95
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MEDFORD/ ROGUE VALLEY INTL-MEDFORD (MFR)

MISSED APPROACH: Climb to 2900 then climbing right turn to 6400 direct OED VORTAC and hold, continue climb-in-hold to 6400.

UNICOM
122.95

CATEGORY	A	B	C	D
CIRCLING	2680-1¼ 1345 (1400-1¼)	2680-1½ 1345 (1400-1½)	2680-3	1345 (1400-3)

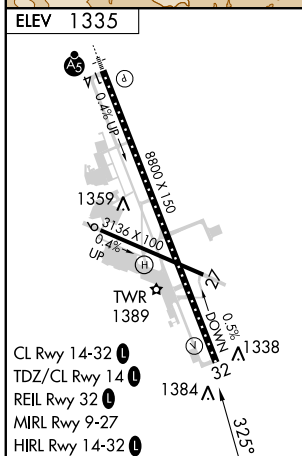
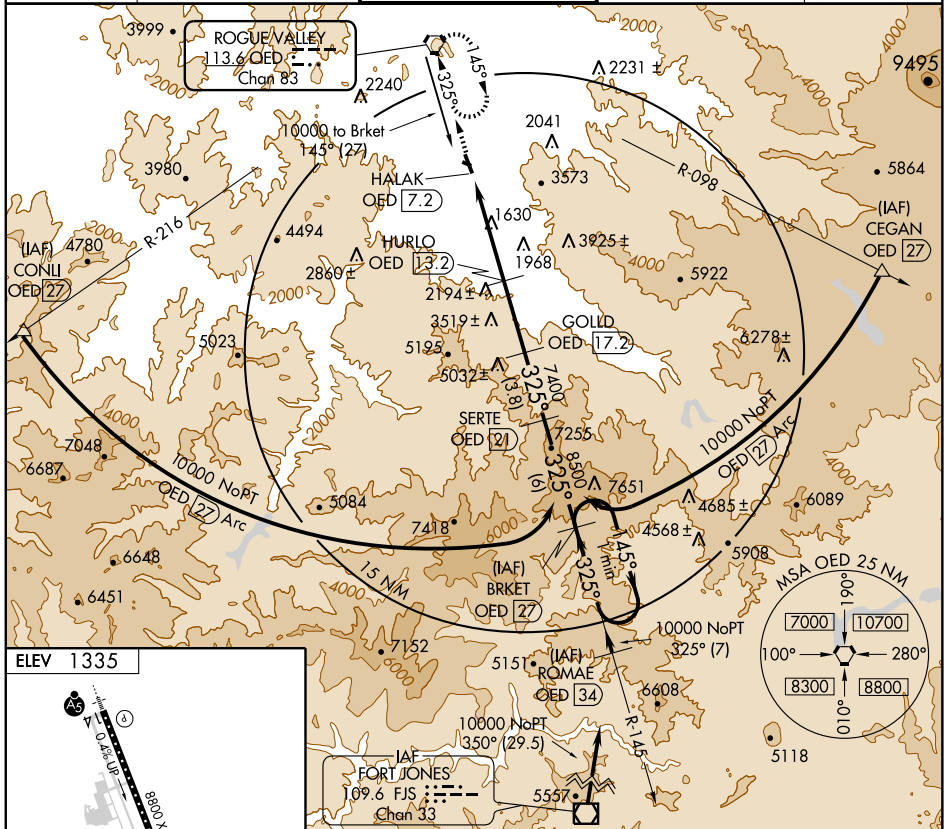
VORTAC OED 113.6 Chan 83	APP CRS 325°	Rwy Idg TDZE Apt Elev N/A 1335
--	------------------------	--

VOR/DME-C

MEDFORD/ ROGUE VALLEY INTL-MEDFORD (MFR)

<div>▼</div> <div>▲</div>	MISSED APPROACH: Climb to 7600 direct OED VORTAC and hold, continue climb-in-hold to 7600.
---------------------------	--

ATIS 127.25	CASCADE APP CON* 124.3 379.9	MEDFORD TOWER* 119.4 (CTAF) 257.8	GND CON 121.8	UNICOM 122.95
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Knots	60	90	120	150	180
Min:Sec					

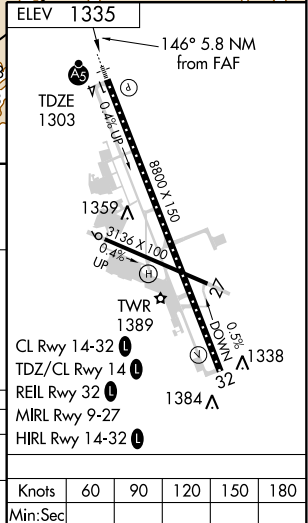
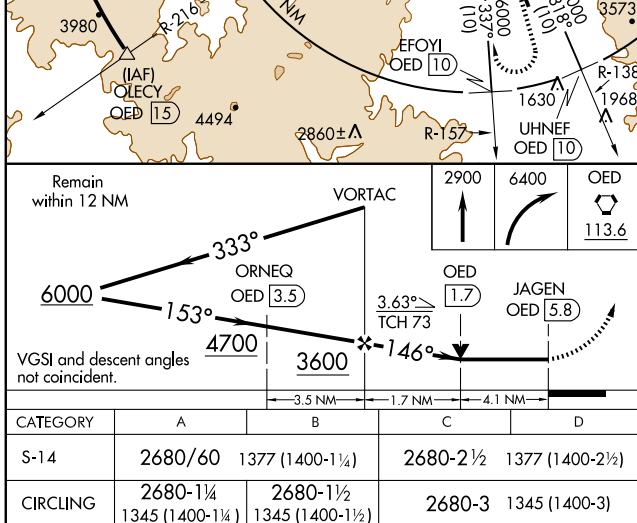
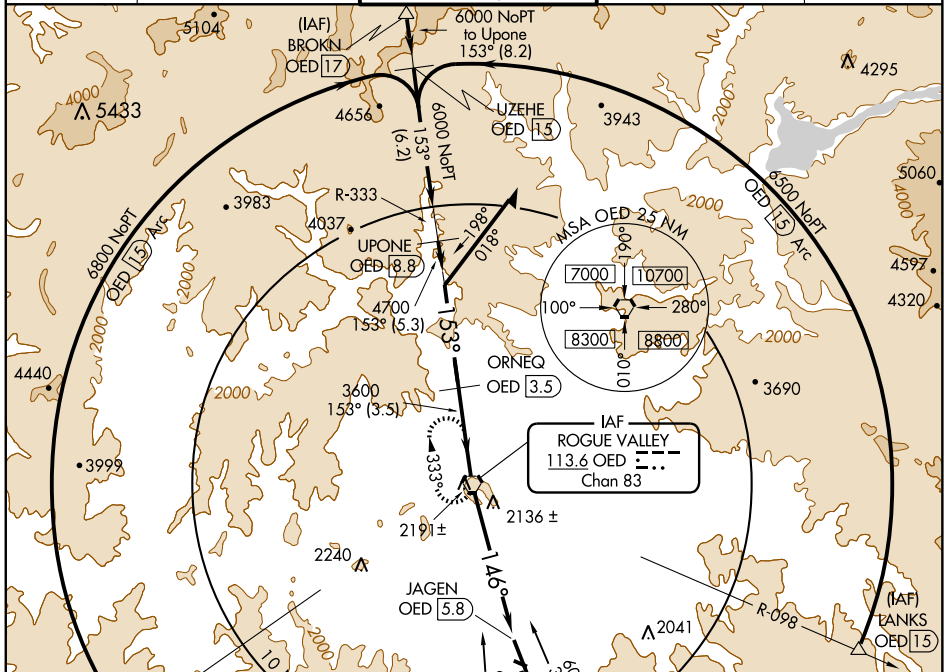
VORTAC OED 113.6 Chan 83	APP CRS 146°	Rwy Idg TDZE Apt Elev 8800 1303 1335
--	------------------------	--

VOR/DME RWY 14

MEDFORD/ROGUE VALLEY INTL-MEDFORD (MFR)

T A	Inoperative table does not apply to S-14 CAT A. For inoperative MALSR increase S-14 CAT B visibility to 1½.	MALSR A5	MISSED APPROACH: Climb to 2900 then climbing right turn to 6400 direct OED VORTAC and hold, continue climb-in-hold to 6400.
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ATIS 127.25	CASCADE APP CON* 124.3 379.9	MEDFORD TOWER* 119.4 (CTAF) 0 257.8	GND CON 121.8	UNICOM 122.95
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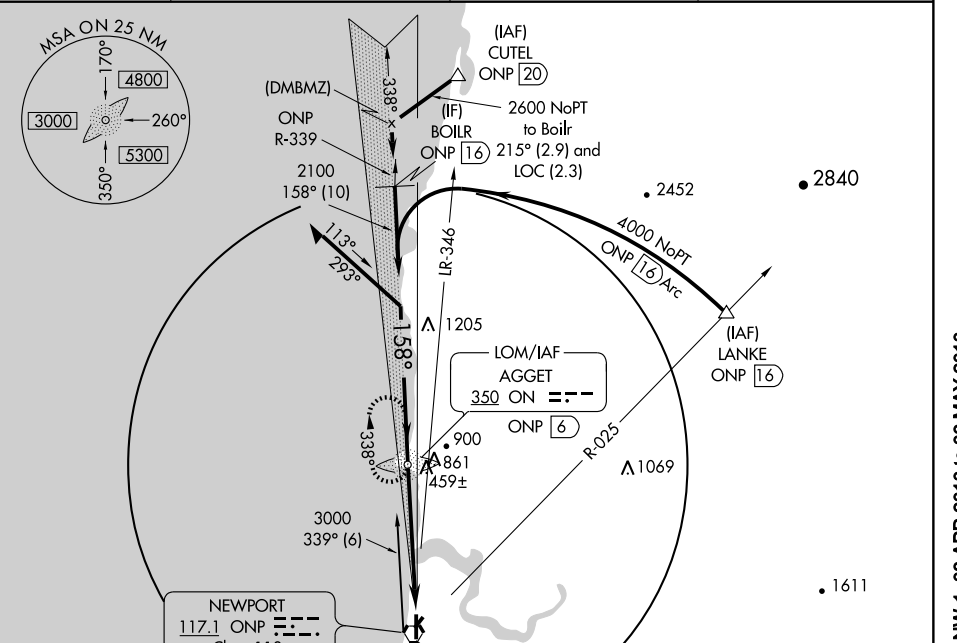
▼

▲ NA

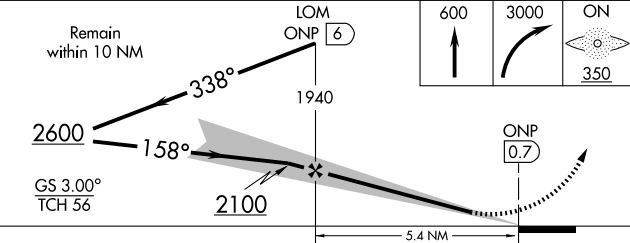
MALSR

MISSED APPROACH: Climb to 600 then climbing right turn to 3000 direct AGGET LOM/ONP 6 DME and hold.

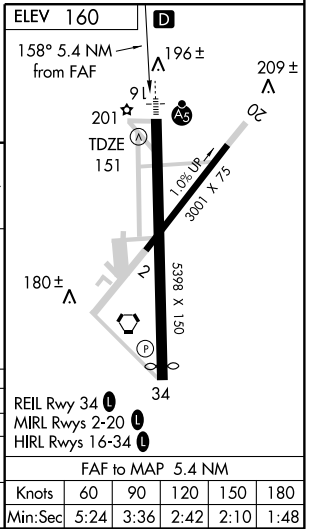
AWOS-3 133.9	SEATTLE CENTER 125.8 291.7	MCMINNVILLE RADIO 122.5	UNICOM 122.8 (CTAF)
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ADF REQUIRED



CATEGORY	A	B	C	D
S-ILS 16		351-¾ 200 (200-¾)		
S-LOC 16	720-¾ 569 (600-¾)		720-1½ 569 (600-1¾)	720-1¾ 569 (600-1¾)
CIRCLING	880-1 720 (800-1)		880-2 720 (800-2)	960-2½ 800 (800-2½)



APP CRS	Rwy Idg	5398
158°	TDZE	151
	Apt Elev	160

RNAV (GPS) RWY 16
NEWPORT MUNI (ONP)

T Inoperative table does not apply to LNAV/VNAV.
A NA GPS or RNP-0.3 required. DME/DME RNP-0.3 NA
 Baro-VNAV NA below -15°C (5°F).

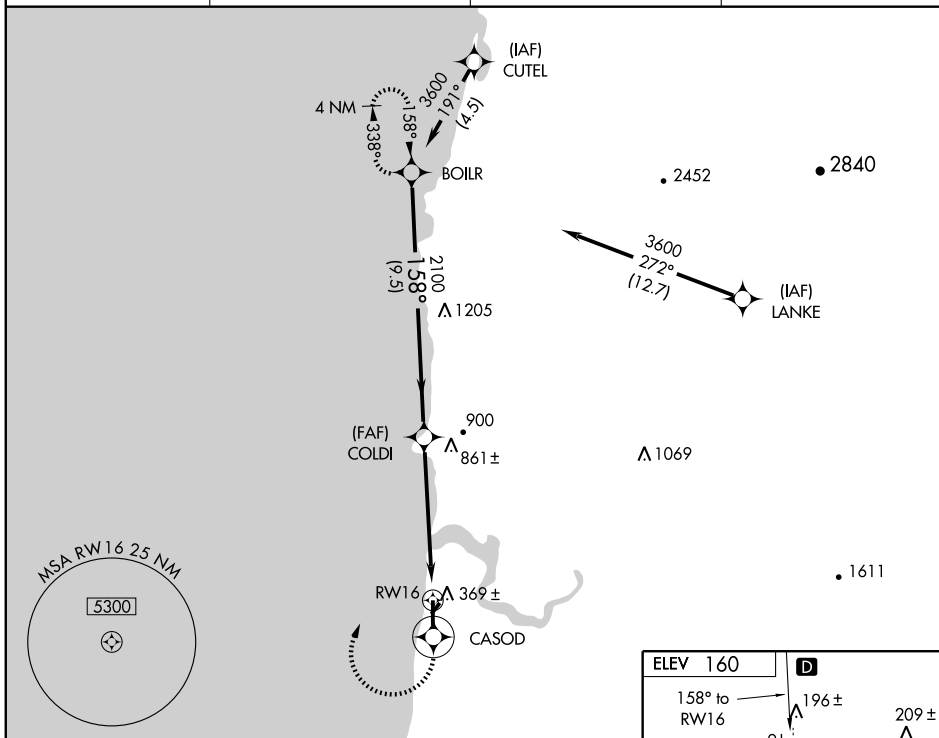
MALSR

MISSED APPROACH: Climb to 800 via 158° course to CASOD WP then climbing right to 3600 direct BOILR WP and hold.

AWOS-3
133.9

SEATTLE CENTER
125.8 291.7

MCMINNVILLE RADIO
122.5

UNICOM
122.8 (CTAF) **L**

Procedure
Turn
NA

800
↑
158°

CASOD

3600

BOILR

3600

158°

COLDI

2100

9.5 NM

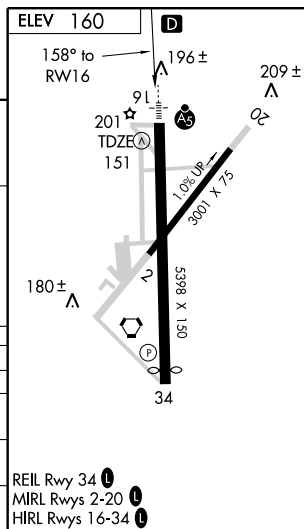
5.8 NM

RW16

GS 3.00°
TCH 56

VGS and descent angles
not coincident.

CATEGORY	A	B	C	D
GLS PA DA	NA			
LNNAV/ VNAV DA	620-1½ 469 (500-1½)			
LNNAV MDA	720-¾ 569 (600-¾)	720-1½ 569 (600-1½)		720-1¾ 569 (600-1¾)
CIRCLING	880-1½ 720 (800-1½)	880-2 720 (800-2)		960-2½ 800 (800-2½)



AL-735 (FAA)

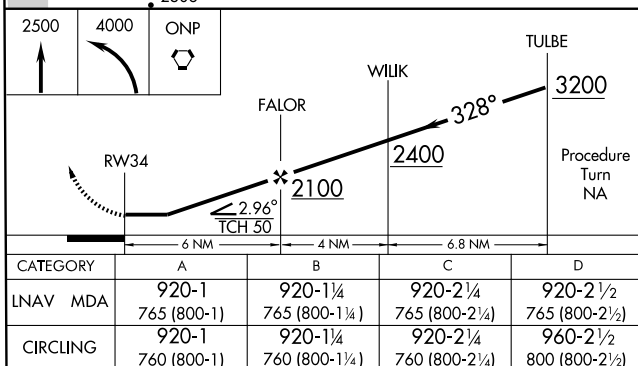
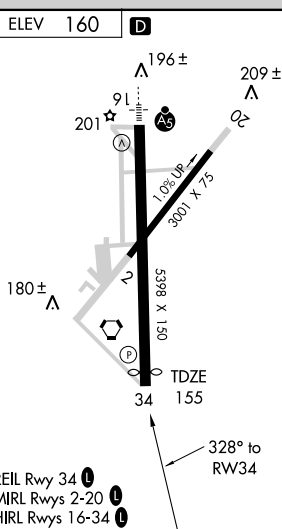
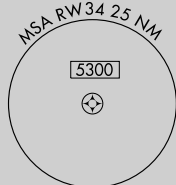
NEWPORT MUNI (ONP)

APP CRS	Rwy Idg	5098
328°	TDZE	155
	Apt Elev	160

T
A NA GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 2500, then climbing left turn to 4000 direct ONP VORTAC and hold.

UNICOM
122.8 (CTAF) **L**



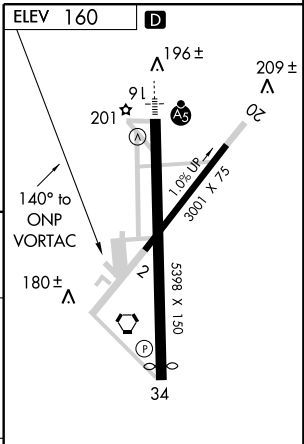
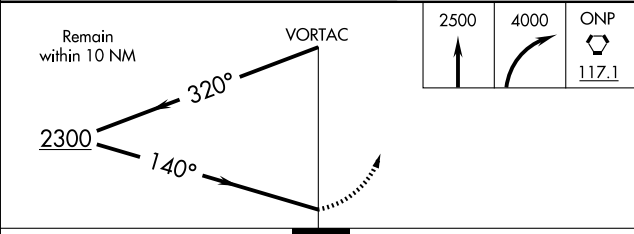
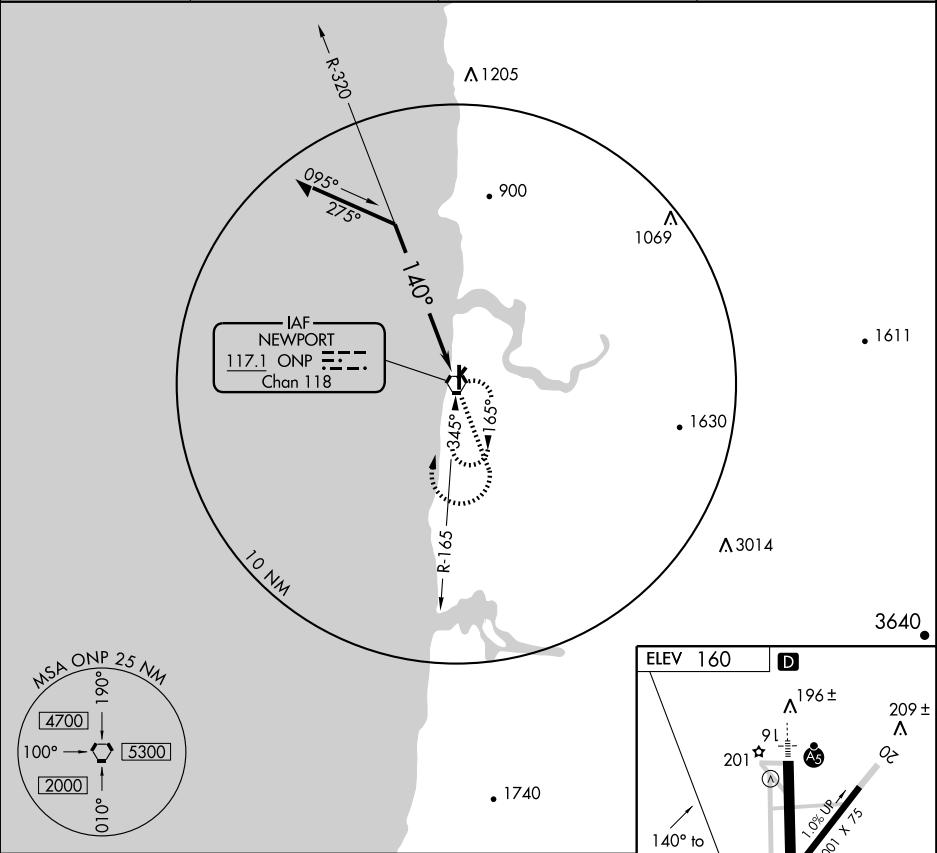
NW-1. 08 APR 2010 to 06 MAY 2010

VORTAC ONP 117.1 Chan 118	APP CRS 140°	Rwy Idg TDZE Apt Elev	N/A N/A 160
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VOR-A
NEWPORT MUNI (ONP)

NA	MISSED APPROACH: Climb to 2500, then climbing right turn to 4000, direct ONP VORTAC and hold.
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AWOS-3 133.9	SEATTLE CENTER 125.8 291.7	MCMINNVILLE RADIO 122.5	UNICOM 122.8 (CTAF)
------------------------	--------------------------------------	-----------------------------------	-------------------------------



CATEGORY	A	B	C	D
CIRCLING	1160-1¼ 1000 (1000-1¼)	1160-1½ 1000 (1000-1½)	1160-3	1000 (1000-3)

REIL Rwy 34
MIRL Rwy 2-20
HIRL Rwy 16-34

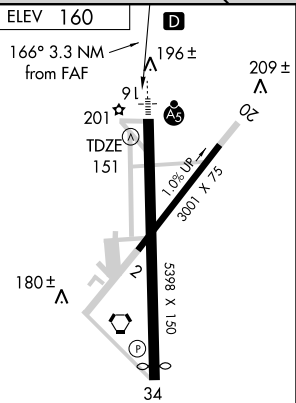
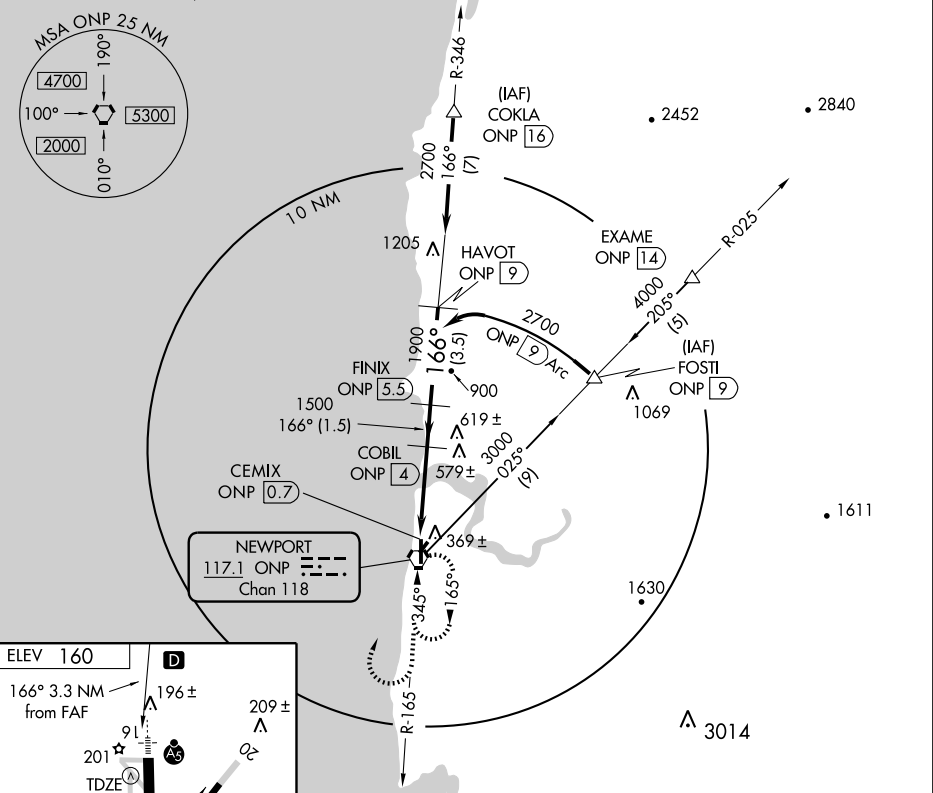
VORTAC ONP	APP CRS	Rwy Idg	5398
117.1	166°	TDZE	151
Chan 118		Apt Elev	160

NA Inoperative table does not apply to MALS Fwy 16.



MISSED APPROACH: Climb to 2500, then climbing right turn to 4000, direct ONP VORTAC and hold.

AWOS-3 133.9	SEATTLE CENTER 125.8 291.7	MCMINNVILLE RADIO 122.5	UNICOM 122.8 (CTAF) 1
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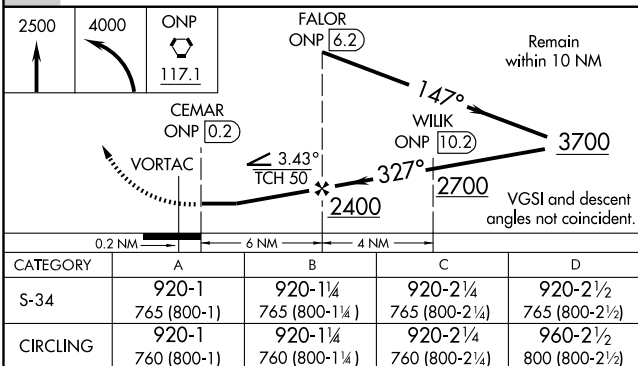


	2500	4000	ONP 117.1				
			VORTAC CEMIX ONP 0.7		FINIX ONP 5.5	COBIL ONP 4	HAVOT ONP 9
				1500	1900	2700	
				3.70° TCH 50	166°		Procedure Turn NA
				3.3 NM	1.5	3.5 NM	
CATEGORY	A	B	C	D			
S-16	640-1	489 (500-1)	640-1¼ 489 (500-1¼)	NA			
CIRCLING	880-1	720 (800-1)	880-2 720 (800-2)	960-2½ 800 (800-2½)			

REIL Rwy 34 1
MIRL Rwy 2-20 1
HIRL Rwy 16-34 1

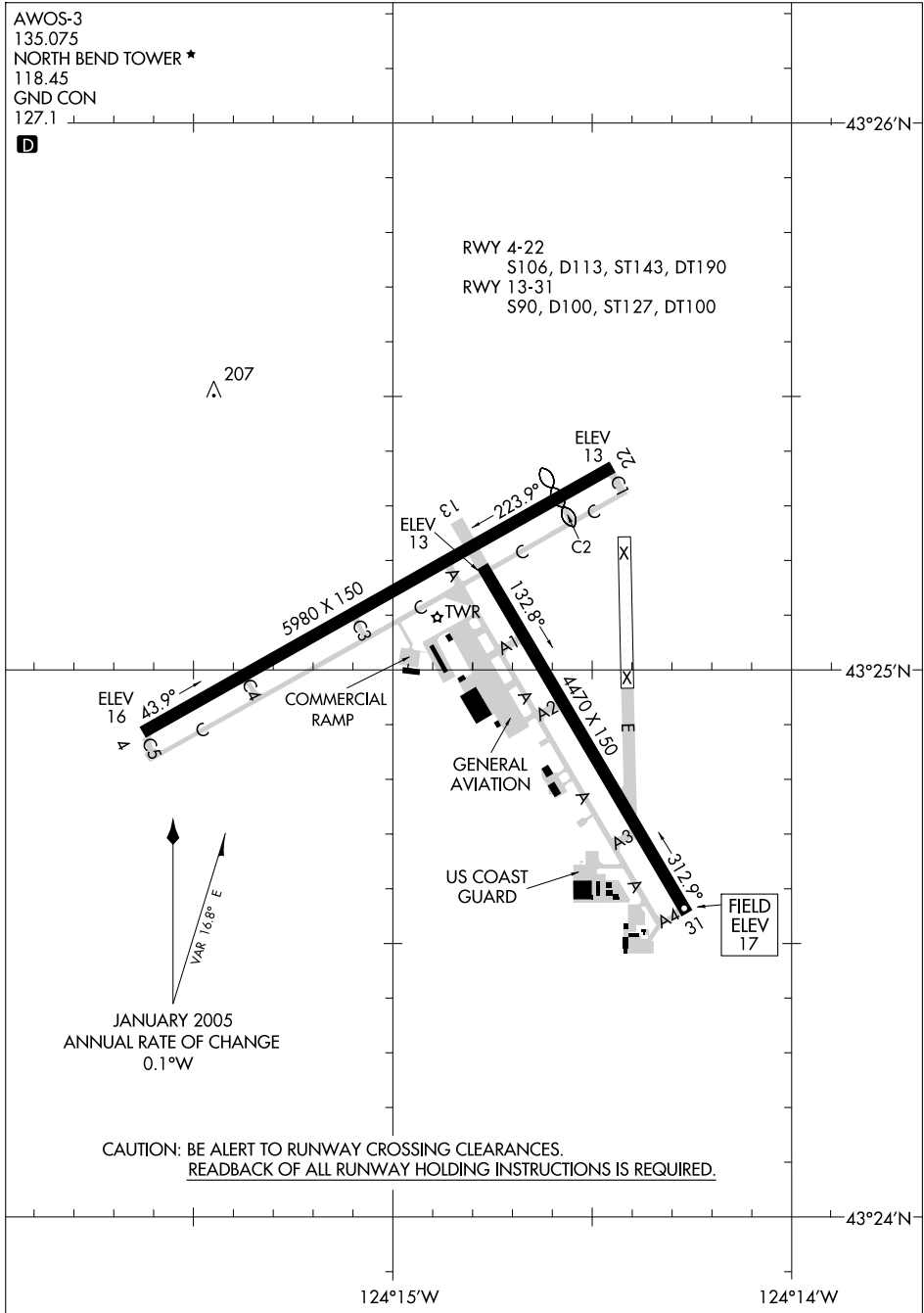
VOR/DME RWY 34
NEWPORT MUNI (ONP)

MISSED APPROACH: Climb to 2500 then climbing left turn to 4000 direct ONP VORTAC and hold.

UN|COM
122.8 (CTAF) 

AIRPORT DIAGRAM

NORTH BEND/SOUTHWEST OREGON RGNL (OTH)
AL-929 (FAA) NORTH BEND, OREGON

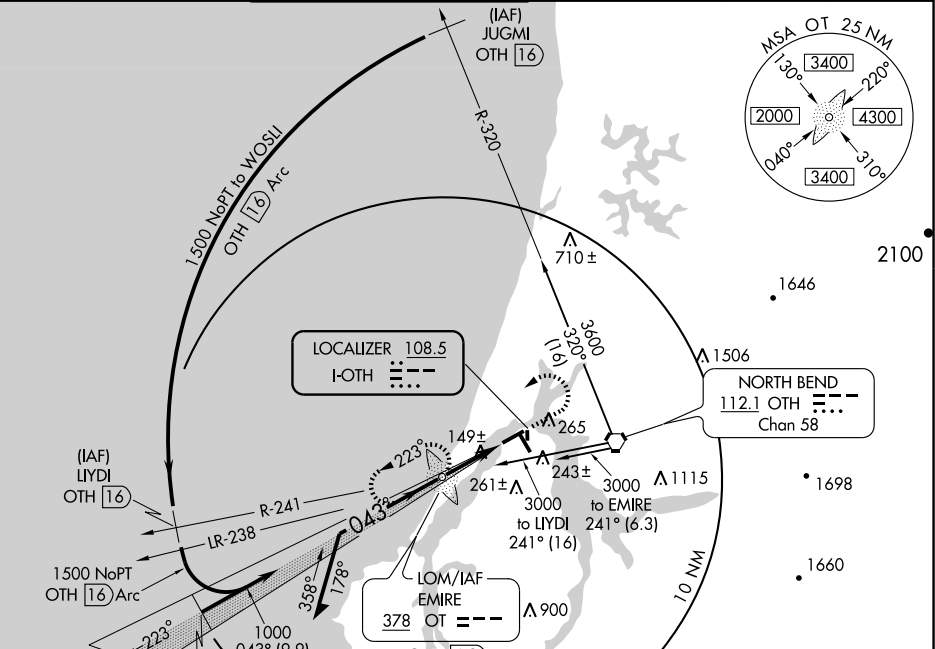


LOC I-OTH	APP CRS	Rwy Idg	5321
108.5	043°	TDZE	16
		Apt Elev	17

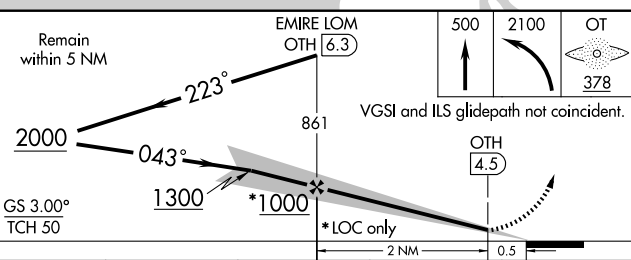
COPTER ILS or LOC RWY 4

NORTH BEND/SOUTHWEST OREGON RGNL (OTH)

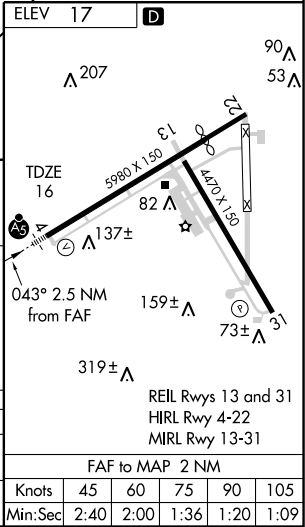
ADF required. If local altimeter setting not received, procedure NA. US Coast Guard use only.			MALSR 	MISSED APPROACH: Climb to 500, then climbing left turn to 2100 direct EMIRE LOM and hold, continue climb-in-hold to 2100.	
AWOS-3	SEATTLE CENTER	SOUTHWEST REGIONAL TOWER ★	MC MINNVILLE RADIO	GND CON	UNICOM
135.075	121.4 254.35	118.45 (CTAF) 0	122.4 255.4	127.1	122.7



ADF or DME REQUIRED



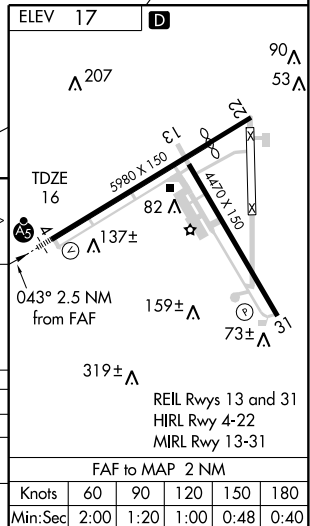
CATEGORY	COPTER	B	C	D
H-ILS 4	216-½ 200 (200-½)		NA	
H-LOC 4	400-½ 384 (400-½)		NA	



NW-1. 08 APR 2010 to 06 MAY 2010

NORTH BEND/ SOUTHWEST OREGON RGNL (OTH)

ADF REQUIRED



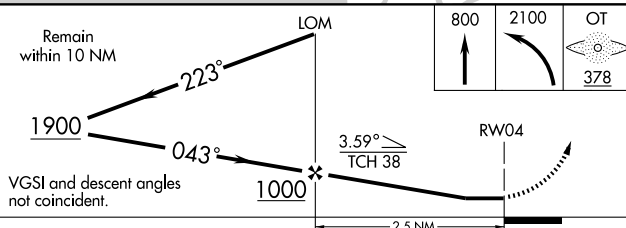
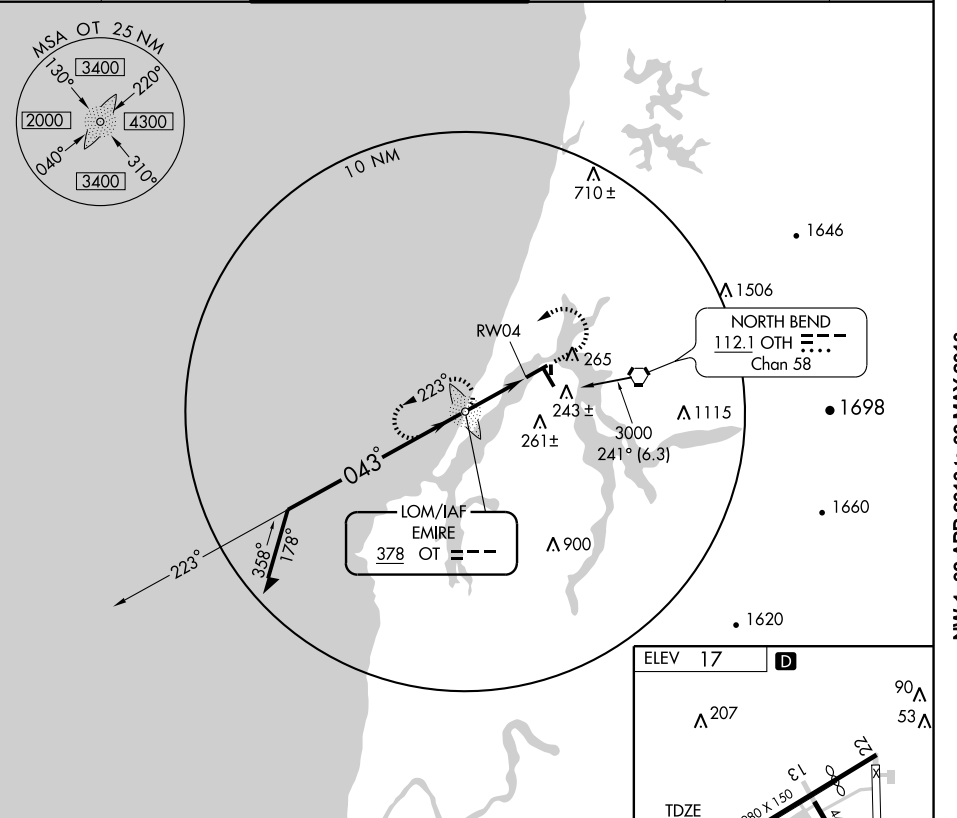
▼

▲

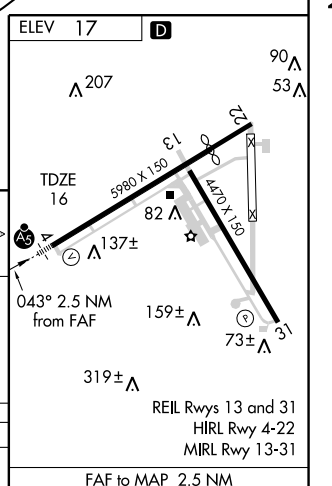
MALSR

MISSED APPROACH: Climb to 800, then climbing left turn to 2100 direct EMIRE (OT) LOM and hold, continue climb-in-hold to 2100.

AWOS-3	SEATTLE CENTER	SOUTHWEST REGIONAL TOWER ★	MC MINNVILLE RADIO	GND CON	UNICOM
135.075	121.4 254.35	118.45 (CTAF)	122.4 255.4	127.1	122.7



CATEGORY	A	B	C	D
S-4	660-1 644 (700-1)		660-1½ 644 (700-1½)	660-2 644 (700-2)
CIRCLING	740-1 723 (800-1)	740-1¼ 723 (800-1¼)	820-2¼ 803 (900-2¼)	1000-3 983 (1000-3)

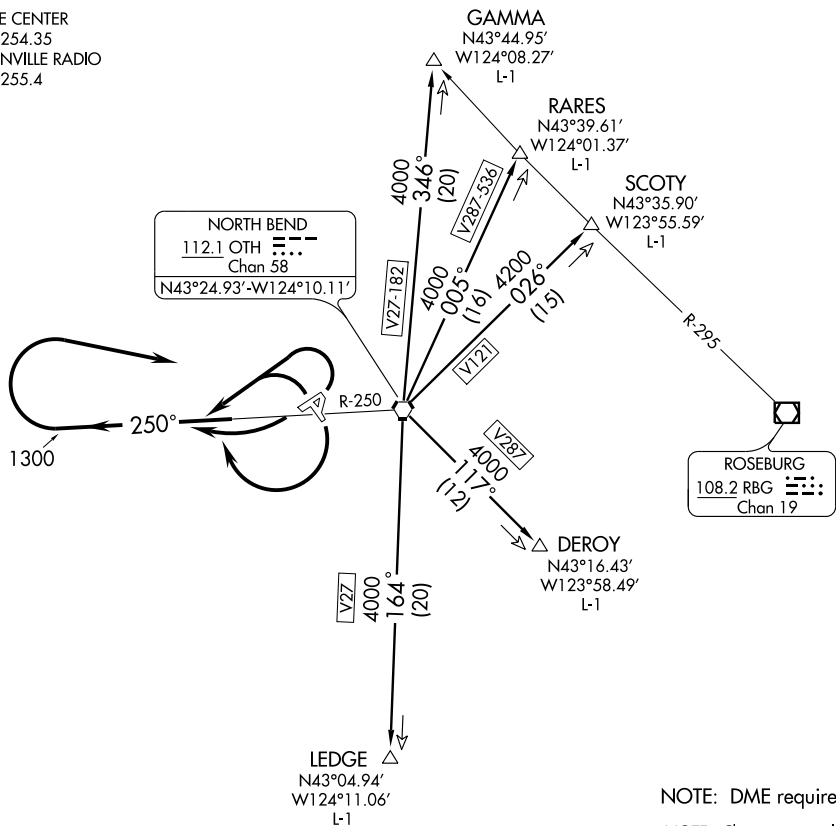


FAF to MAP 2.5 NM	Knots	60	90	120	150	180
	Min:Sec	2:30	1:40	1:15	1:00	0:50

NW-1. 08 APR 2010 to 06 MAY 2010

NORTH BEND FOUR DEPARTURE

SEATTLE CENTER
121.4 254.35
McMINNVILLE RADIO
122.4 255.4



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 4, 31 and 34: Turn left. Thence....

TAKE-OFF RUNWAYS 13, 16 and 22: Turn right. Thence....

....All aircraft climb via OTH R-250 to 1300, then climbing right turn direct OTH VORTAC. Thence via (transition).

DEROT TRANSITION (OTH4.DEROT): From over OTH VORTAC via OTH R-117 to DEROT DME FIX.

GAMMA TRANSITION (OTH4.GAMMA): From over OTH VORTAC via OTH R-346 to GAMMA INT.

LEDGE TRANSITION (OTH4.LEDGE): From over OTH VORTAC via OTH R-164 to LEDGE DME FIX.

RARES TRANSITION (OTH4.RARES): From over OTH VORTAC via OTH R-005 to RARES INT.

SCOTY TRANSITION (OTH4.SCOTY): From over OTH VORTAC via OTH R-026 to SCOTY INT.

AL-929 (FAA)

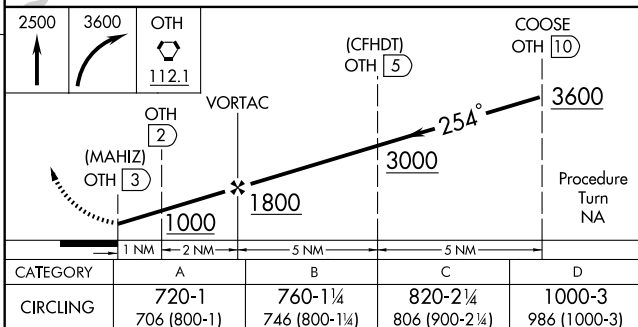
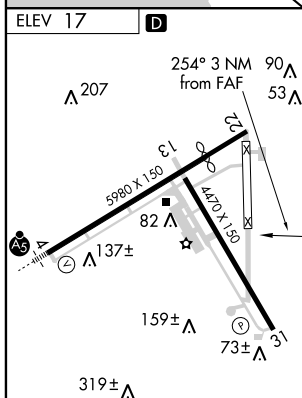
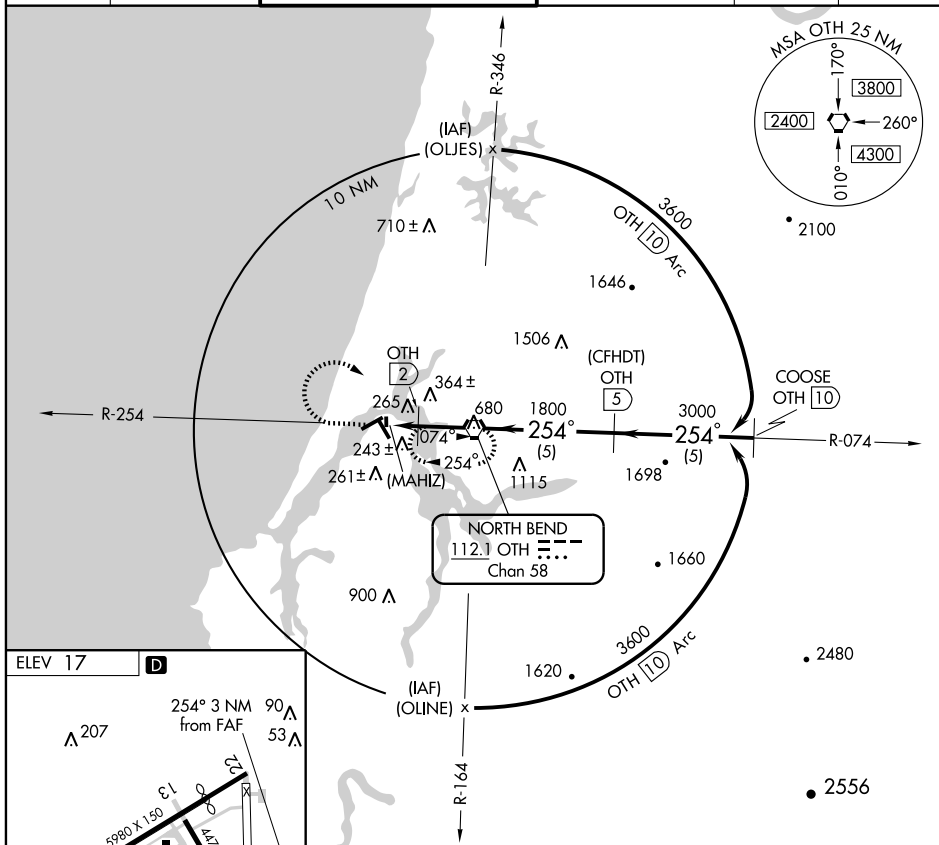
VOR/DME or GPS-B

NORTH BEND/ SOUTHWEST OREGON RGNL (OTH)



MISSED APPROACH: Climb to 2500, then climbing right turn to 3600 direct OTH VORTAC and hold.

AWOS-3	SEATTLE CENTER	SOUTHWEST REGIONAL TOWER ★	MC MINNVILLE RADIO	GND CON	UNICOM
135.075	121.4 254.35	118.45 (CTAF) ①	122.4 255.4	127.1	122.7



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REIL Rwy 13 and 31
HIRL Rwy 4-22
MIRL Rwy 13-31

VORTAC OTH	APP CRS	Rwy Idg	5321
112.1	070°	TDZE	12
Chan 58		Apt Elev	17

NORTH BEND/SOUTHWEST OREGON RGNL (OTH)

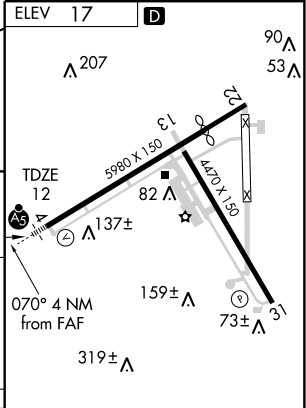
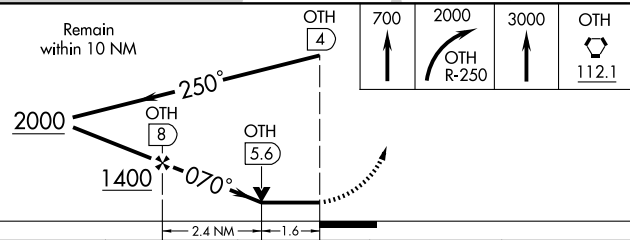
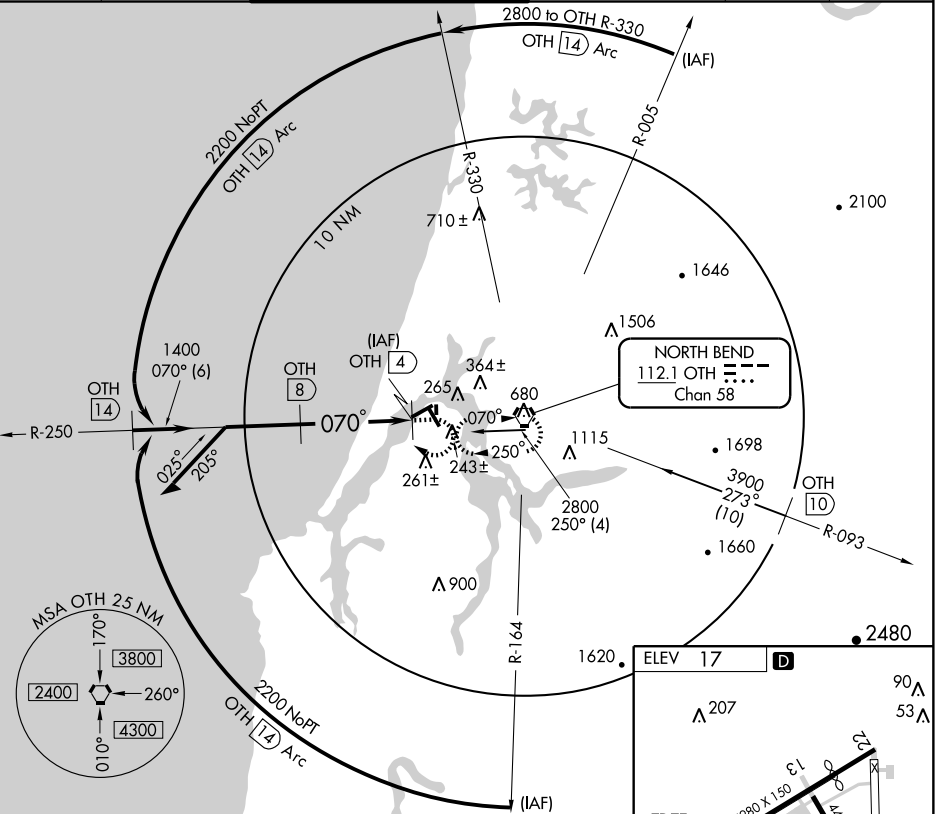
▼

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MALSR

MISSED APPROACH: Climb to 700, then climbing right turn to 2000 via OTH R-250; then climb to 3000 direct OTH VORTAC and hold.

AWOS-3	SEATTLE CENTER	SOUTHWEST REGIONAL TOWER ★	MC MINNVILLE RADIO	GND CON	UNICOM
135.075	121.4 254.35	118.45 (CTAF) ❶	122.4 255.4	127.1	122.7



CATEGORY	A	B	C	D
S-4	540-1 528 (600-1)		540-1½ 528 (600-1½)	540-1¾ 528 (600-1¾)
CIRCLING	720-1 706 (800-1)	760-1¼ 746 (800-1¼)	820-2¼ 806 (900-2¼)	1000-3 986 (1000-3)

REIL Rwy 13 and 31
HIRL Rwy 4-22
MIRL Rwy 13-31

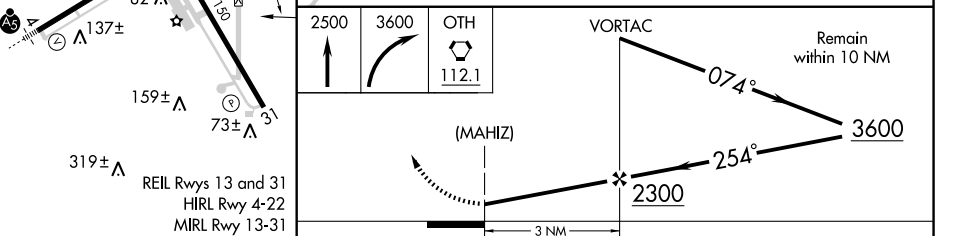
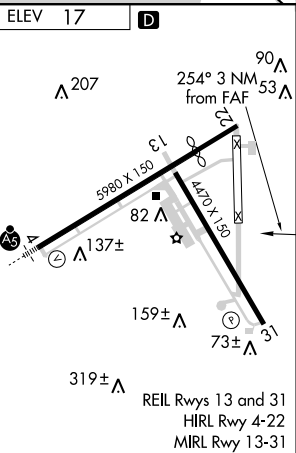
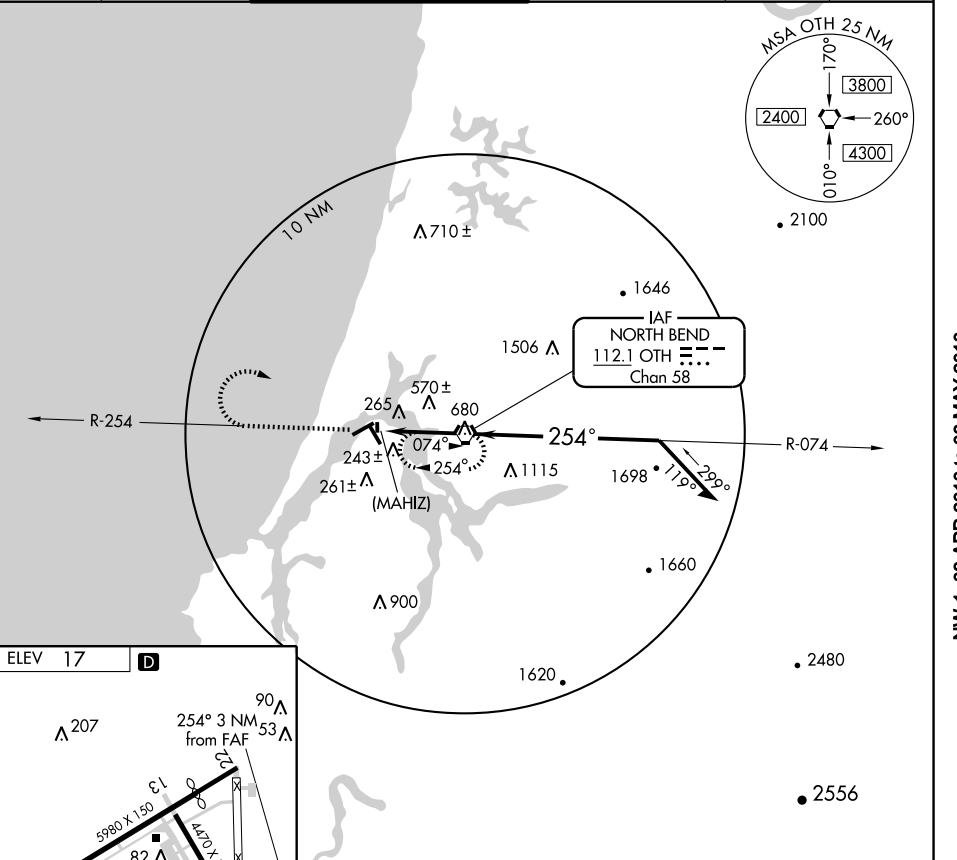
NW-1. 08 APR 2010 to 06 MAY 2010

▼

▲

MISSED APPROACH: Climb to 2500, then climbing right turn to 3600 direct OTH VORTAC and hold.

AWOS-3 135.075	SEATTLE CENTER 121.4 254.35	SOUTHWEST REGIONAL TOWER ★ 118.45 (CTAF) 0	MC MINNVILLE RADIO 122.4 255.4	GND CON 127.1	UNICOM 122.7
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FAF to MAP 3 NM						CATEGORY	A	B	C	D
Knots	60	90	120	150	180	CIRCLING	1100-1¼ 1086 (1100-1¼)	1100-1½ 1086 (1100-1½)	1100-3	1086 (1100-3)
Min:Sec	3:00	2:00	1:30	1:12	1:00					

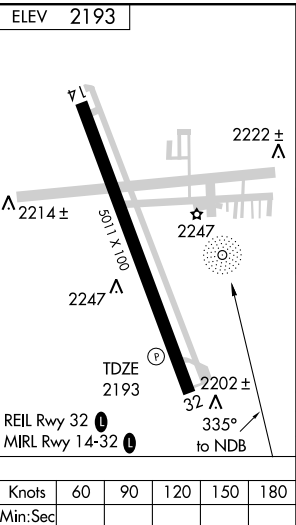
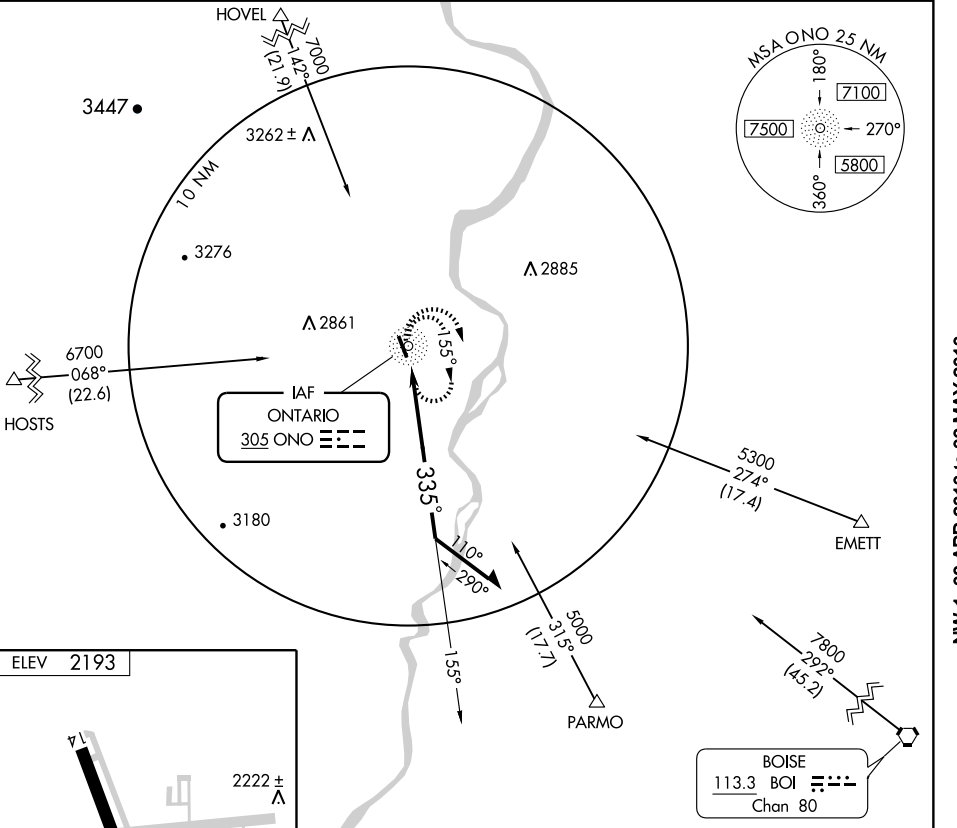
▼

NA

Visibility reduction by helicopters NA.
When local altimeter setting not received, use Caldwell
altimeter setting and increase MDA 100 feet.

MISSED APPROACH: Climbing right turn to 4500 in ONO
NDB holding pattern.

ASOS 135.275	SALT LAKE CENTER 128.05 387.15	UNICOM 122.8 (CTAF) 0
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4500 ONO 305		NDB 155° 335° 4500		Remain within 10 NM	
CATEGORY	A	B	C	D	
S-32	3160-1¼ 967 (1000-1¼)	3160-1½ 967 (1000-1½)	3160-3	967 (1000-3)	
CIRCLING	3160-1¼ 967 (1000-1¼)	3160-1½ 967 (1000-1½)	3160-3	967 (1000-3)	

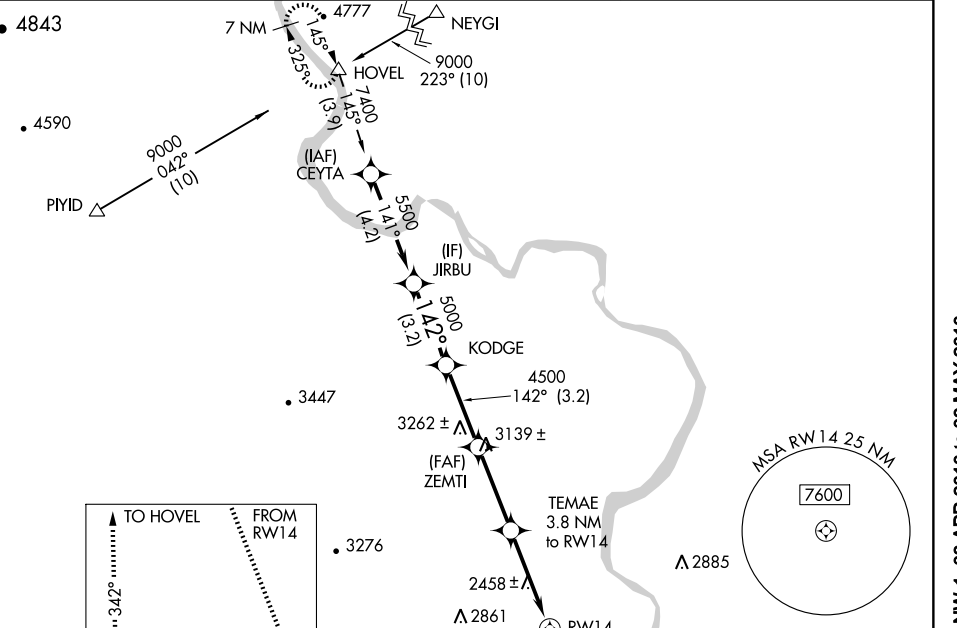
WAAS CH 78207 W14A	APP CRS 142°	Rwy Idg TDZE Apt Elev	5011 2193 2193
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▼ Baro-VNAV NA when using Caldwell altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -19°C (-2°F) or above 45°C (113°F). DME/DME RNP -0.3 NA.

▲ Visibility reduction by helicopters NA. When local altimeter setting not received, use Caldwell altimeter setting and increase DA/MDA 100 feet, and increase LPV visibility ¼ mile all Cats, LNAV/VNAV visibility ½ mile all Cats, LNAV Cat C and D ¼ mile, Circling Cat C ¼ mile.

MISSED APPROACH: Climb to 9000 direct TUCUB and right turn via 241° track to LUYID and right turn via 342° track to HOVEL and hold.

ASOS 135.275	SALT LAKE CENTER 128.05 387.15	UNICOM 122.8 (CTAF) 0
------------------------	--	---------------------------------



Procedure Turn NA				
JIRBU	9000	TUCUB	LUYID	HOVEL
5500	142°	5000	241°	342°
GS 3.00° TCH 40				* LNAV only
3.2 NM	3.2 NM	3.2 NM	3.8 NM	
CATEGORY	A	B	C	D
LPV DA	2744-2		551 (600-2)	
LNAV/ DA VNAV	2781-2		588 (600-2)	
LNAV MDA	2720-1	527 (600-1)	2720-1½ 527 (600-1½)	2720-1¾ 527 (600-1¾)
CIRCLING	2720-1 527 (600-1)	2760-1 567 (600-1)	2760-1½ 567 (600-1½)	2760-2 567 (600-2)

ELEV 2193

142° to RWY 14

TDZE 2193

2222 ±

2214 ±

5011 x 100

2247

2247

2202 ±

32

REIL Rwy 32

MRL Rwy 14-32

NW-1, 08 APR 2010 to 06 MAY 2010

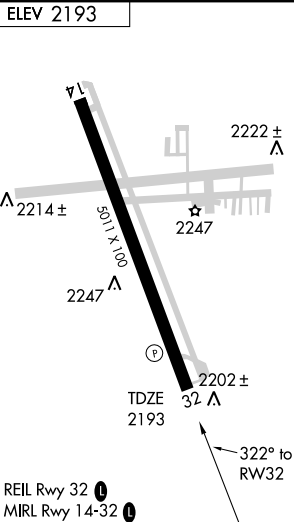
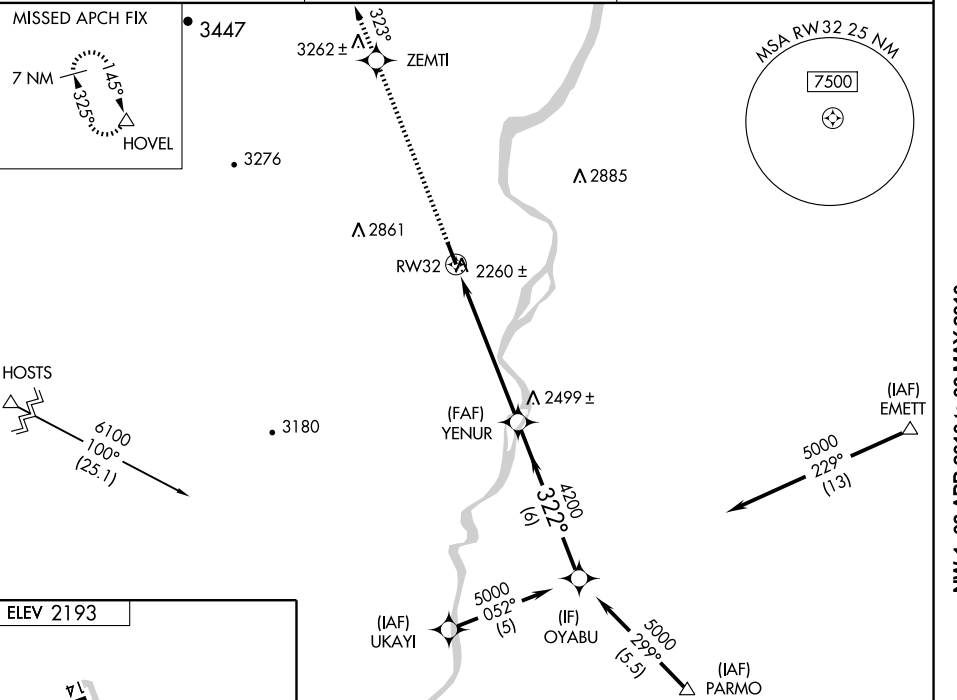
WAAS CH 87007 W32A	APP CRS 322°	Rwy Idg TDZE Apt Elev	5011 2193 2193
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⚠ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -19°C (-2°F) or above 44°C (111°F). Baro-VNAV and VDP NA when using Caldwell altimeter setting.

⚠ DME/DME RNP -0.3 NA. Visibility reduction by helicopters NA. When local altimeter setting not received, use Caldwell altimeter setting and increase DA/MDA 100 feet, and increase LPV and LNAV/VNAV visibility ¼ mile all Cats, LNAV Cat C and D and Circling Cat C visibility ¼ mile.

MISSED APPROACH: Climb to 9000 direct ZEMTI and via 323° track to HOVEL and hold, continue climb-in-hold to 9000.

ASOS 135.275	SALT LAKE CENTER 128.05 387.15	UNICOM 122.8 (CTAF) 1
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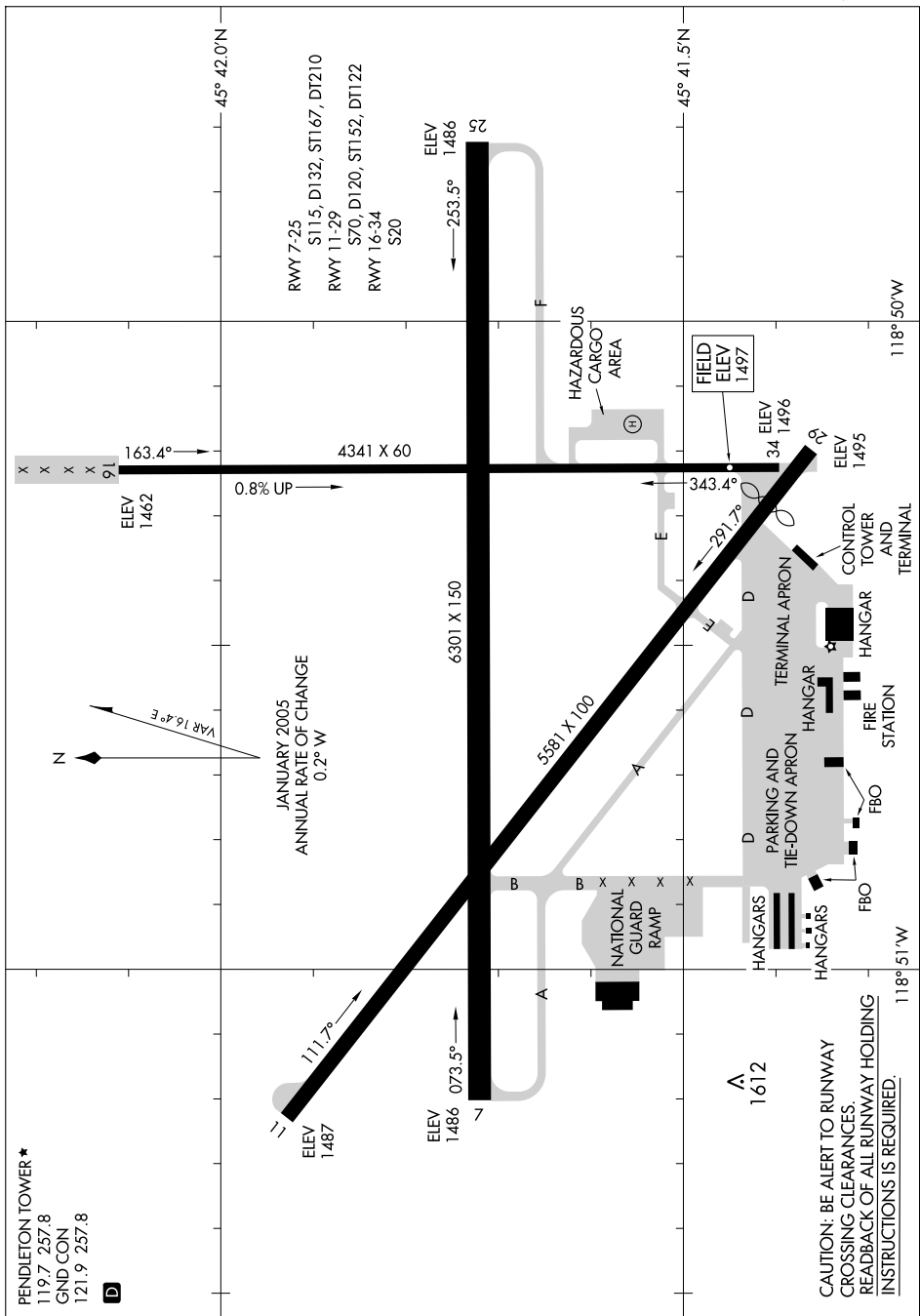


9000	ZEMTI	323° track	HOVEL	Procedure Turn NA
*LNAV only	*1.7 NM to RW32	YENUR	OYABU	5000
RW32	1.7 NM	4.4 NM	6 NM	GS 3.00° TCH 40
CATEGORY	A	B	C	D
LPV DA	2443-1		250 (300-1)	
LNAV/VNAV DA	2510-1¼		317 (400-1¼)	
LNAV MDA	2760-1	567 (600-1)	2760-1½ 567 (600-1½)	2760-1¾ 567 (600-1¾)
CIRCLING	2760-1	567 (600-1)	2760-1½ 567 (600-1½)	2760-2 567 (600-2)

NW-1. 08 APR 2010 to 06 MAY 2010

AIRPORT DIAGRAM

PENDLETON / EASTERN OREGON RGNL AIRPORT (PDT)
 AL-316 (FAA)
 PENDLETON, OREGON



NW-1, 08 APR 2010 to 06 MAY 2010

LOC I-PDT <u>110.3</u>	APP CRS 254°	Rwy Idg 6301 TDZE 1487 Apt Elev 1497
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ILS or LOC/DME RWY 25

PENDLETON/ EASTERN OREGON RGNL AT PENDLETON (PDT)

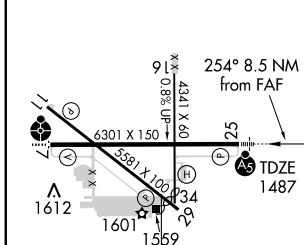
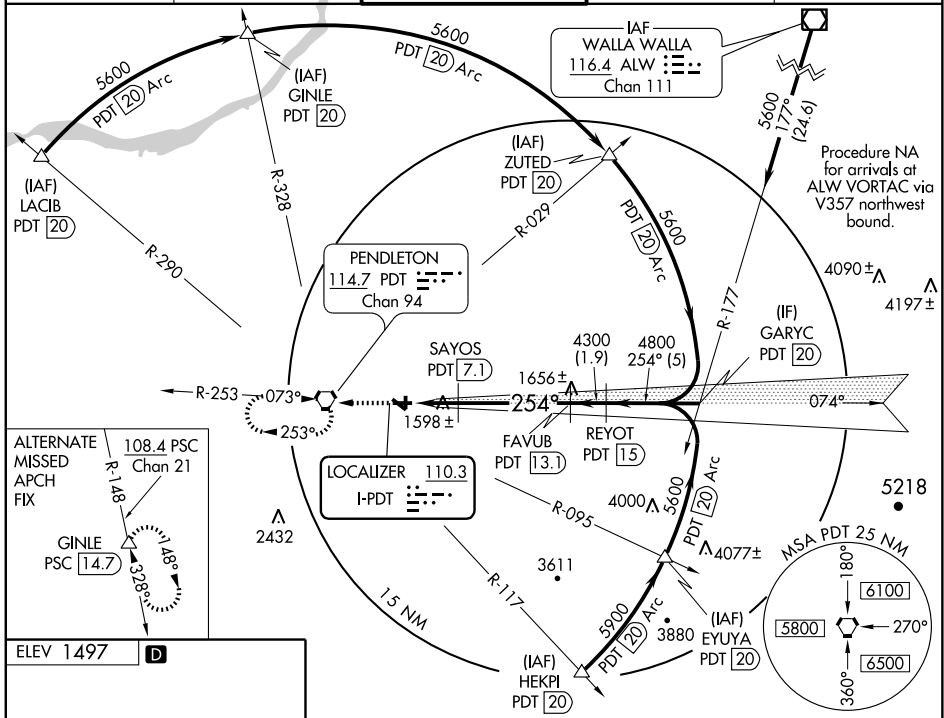
- T** DME from PDT VORTAC. Simultaneous reception of I-PDT and PDT VORTAC DME required.
- A** When local altimeter setting not received, use Walla Walla altimeter setting and increase all DA/MDA 120 feet, and S-LOC 25 Cat C/D visibility ¼ mile. For inoperative MALS when using Walla Walla altimeter setting increase S-HLS 25 visibility all Cats to 1 mile.
- **** RVR 1800 authorized with the use of FD or AP or HUD to DA, NA when using Walla Walla altimeter setting.

MALSR



MISSED APPROACH: Climb to 4000 direct PDT VORTAC and hold, continue climb-in-hold to 4000.

ASOS 118.325	CHINOOK APP CON ★ 133.15 379.15	PENDLETON TOWER ★ 119.7 (CTAF) 0 257.8	GND CON 121.9 257.8	UNICOM 122.95
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4000
↑
PDT
114.7

VGS and ILS glidepath
not coincident.

FAVUB
PDT 13.1

REYOT
PDT 15

GARYC
PDT 20

* LOC only

SAYOS
PDT 7.1

4300

25°

4800

5600

Procedure
Turn
NA

GS 3.00°
TCH 55

2.5 6 NM 1.9 NM 5 NM

2320*

	CATEGORY	A	B	C	D
	S-ILS 25	** 1687/24 200 (200-½)			
REIL Rwy 11 and 29 ^①	S-LOC 25	1860/24 373 (400-½)			1860/40 373 (400-¾)
MIRL Rwy 11-29 ^①		1920-1 423 (500-1)	1960-1 463 (500-1)	1960-1½ 463 (500-1½)	2060-2 563 (600-2)
HIRL Rwy 7-25 ^①	CIRCLING				

WAAS CH 73012 W07A	APP CRS 074°	Rwy Idg TDZE Apt Elev	6301 1486 1497
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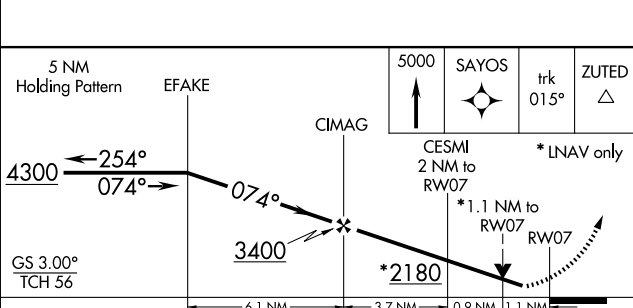
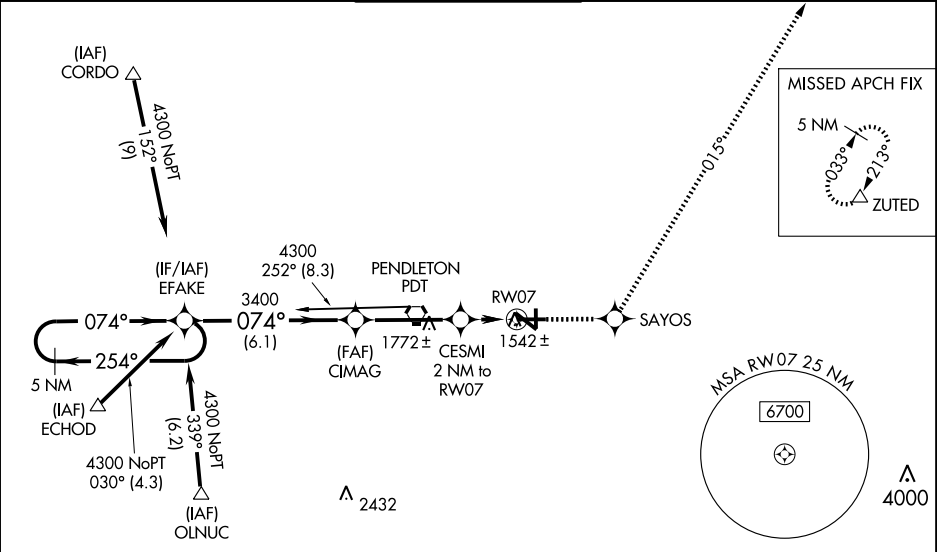
RNAV (GPS) RWY 7
PENDLETON/ EASTERN OREGON RGNL AT PENDLETON (PDT)

⚠ Inoperative table does not apply to LNAV/VNAV all Cats.
⚠ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C (2°F) or above 46°C (114°F). DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA.
VDP and Baro-VNAV NA when using Walla Walla altimeter setting. When local altimeter setting not received, use Walla Walla altimeter setting and increase all DA/MDA 120 feet, and all visibilities ¾ mile. Inoperative table does not apply.

ODALS

MISSED APPROACH: Climb to 5000 direct SAYOS and via track 015° to ZUTED and hold.

ASOS 118.325	CHINOOK APP CON* 133.15 379.15	PENDLETON TOWER* 119.7 (CTAF) 0 257.8	GND CON 121.9 257.8	UNICOM 122.95
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CATEGORY	A	B	C	D
LPV DA	1736-¾ 250 (300-¾)			
LNAV/VNAV DA	1834-1¼ 348 (400-1¼)			
LNAV MDA	1880-¾ 394 (400-¾)			1880-1¼ 394 (400-1¼)
CIRCLING	1920-1 423 (500-1)	1960-1 463 (500-1)	1960-1½ 463 (500-1½)	2060-2 563 (600-2)

ELEV 1497 **D**

REIL Rwy 11 and 29 **L**
MIRL Rwy 11-29 **L**
HIRL Rwy 7-25 **L**

WAAS CH 82712 W11A	APP CRS 112°	Rwy Idg TDZE Apt Elev	5581 1487 1497
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RNAV (GPS) RWY 11

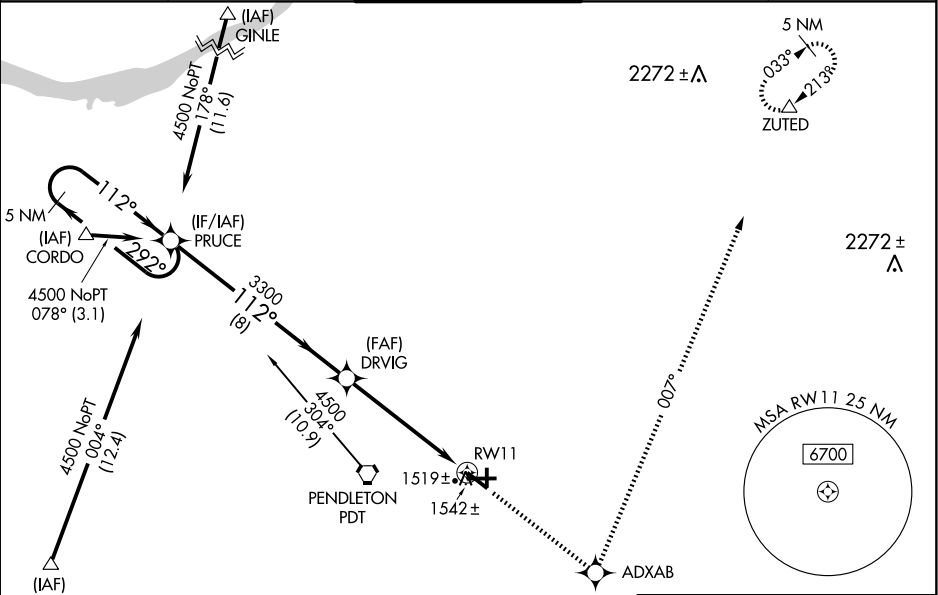
PENDLETON/ EASTERN OREGON RGNL AT PENDLETON (PDT)

⚠ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C (2°F) or above 46°C (114°F). DME/DME RNP-0.3 NA.

⚠ When local altimeter setting not received, use Walla Walla altimeter setting: increase all DA/MDA 120 feet and visibility LPV all Cats ¼ mile, LNAV/VNAV all Cats ½ mile, LNAV Cats C and D ¼ mile and Circling Cat D ¼ mile. VDP and Baro-VNAV NA when using Walla Walla altimeter setting.

MISSED APPROACH: Climb to 5000 direct ADXAB and left turn via track 007° to ZUTED and hold.

ASOS 118.325	CHINOOK APP CON* 133.15 379.15	PENDLETON TOWER* 119.7 (CTAF) 0 257.8	GND CON 121.9 257.8	UNICOM 122.95
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5 NM Holding Pattern		PRUCE	5000	ADXAB	ZUTED
4500 ← 292°		DRVIG	*LNAV only		
112° →		3300	*1 NM to RWY 11		
GS 3.00°		8 NM	4.5 NM	1 NM	
TCH 43					

CATEGORY	A	B	C	D
LPV DA	1737-1 250 (300-1)			
LNAV/VNAV DA	1850-1¼ 363 (400-1¼)			
LNAV MDA	1860-1 373 (400-1)			1860-1¼ 373 (400-1¼)
CIRCLING	1920-1 423 (500-1)	1960-1 463 (500-1)	1960-1½ 463 (500-1½)	2060-2 563 (600-2)

ELEV 1497 **D**

The inset chart provides a detailed view of the approach geometry. It shows the 112° track to RWY 11, the 292° track, and the 007° track. Key altitudes include 1487 (TDZE), 1559, 1601, 1612, and 1625. It also shows the 5000 ft holding pattern and the missed approach procedure.

REIL Rwy 11 and 29 **Ⓛ**
MIRL Rwy 11-29 **Ⓛ**
HIRL Rwy 7-25 **Ⓛ**

WAAS CH 78412 W25A	APP CRS 254°	Rwy Idg TDZE Apt Elev	6301 1487 1497
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RNAV (GPS) RWY 25

PENDLETON/ EASTERN OREGON RGNL AT PENDLETON (PDT)

- ▼ For inoperative MALS, increase LNAV/VNAV Cat D visibility to RVR 5000, and LNAV Cat D to RVR 6000.

▲ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C (2°F) or above 46°C (114°F). DME/DME RNP-0.3 NA. When local altimeter setting not received, use Walla Walla altimeter setting and increase all DA/MDA 120 feet, and all visibilities 1 mile; inoperative table does not apply. VDP and Baro-VNAV NA when using Walla Walla altimeter setting.

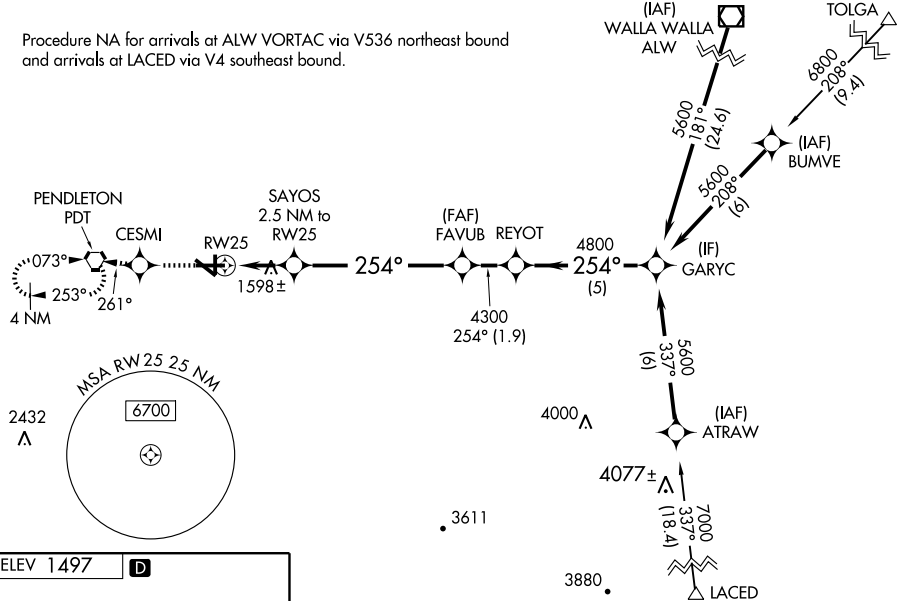
MALS



MISSED APPROACH: Climb to 4000 direct CESMI and via track 261° to PDT VORTAC and hold, continue climb-in-hold to 4000.

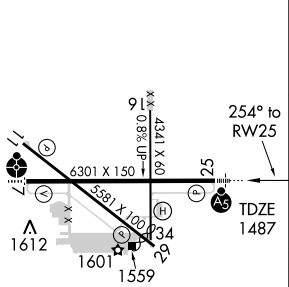
ASOS 118.325	CHINOOK APP CON* 133.15 379.15	PENDLETON TOWER* 119.7 (CTAF) 257.8	GND CON 121.9 257.8	UNICOM 122.95
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Procedure NA for arrivals at ALW VORTAC via V536 northeast bound and arrivals at LACED via V4 southeast bound.



ELEV 1497

D



4000	CESMI	trk 261°	PDT	VGSI and RNAV glidepath not coincident.
*LNAV only	SAYOS 2.5 NM to RW25	FAVUB	REYOT	GARYC
1.1 NM to RW25	2320	4300	5600	Procedure Turn NA
1.1 NM	1.4 NM	6 NM	1.9 NM	5 NM
CATEGORY	A	B	C	D
LPV DA	1687/24 200 (200-½)			
LNAV/VNAV DA	1800/24 313 (400-½)			1800/40 313 (400-¾)
LNAV MDA	1860/24 373 (400-½)			1860/50 373 (400-1)
CIRCLING	1920-1 423 (500-1)	1960-1 463 (500-1)	1960-1½ 463 (500-1½)	2060-2 563 (600-2)

REIL Rwy 11 and 29

MIRL Rwy 11-29

HIRL Rwy 7-25

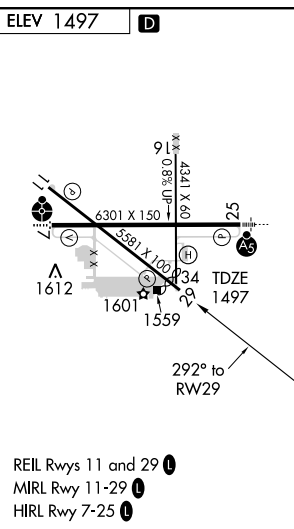
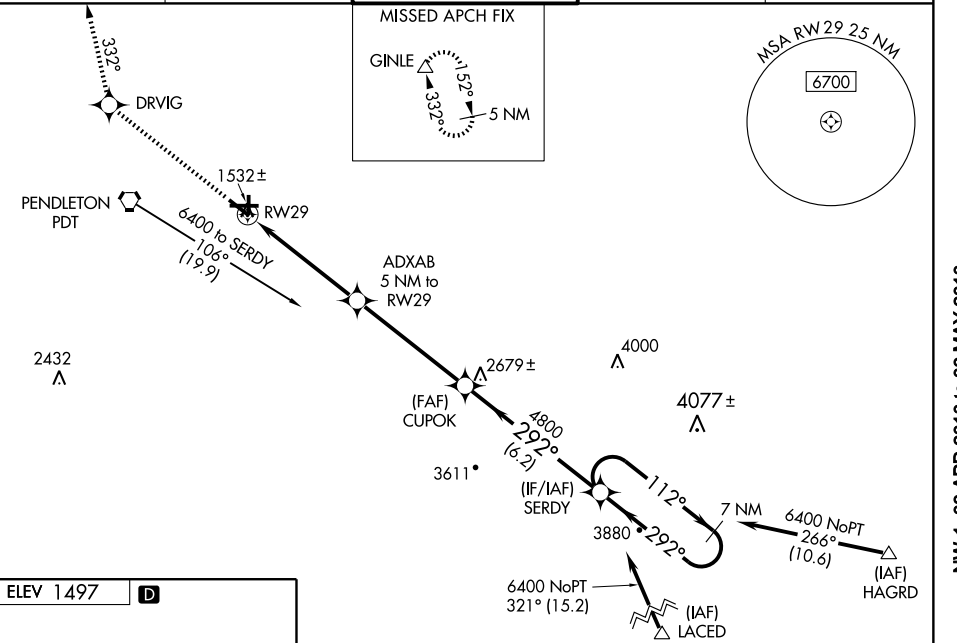
⚠ Inoperative table does not apply.

⚠ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C (2°F) or above 46°C (114°F). DME/DME RNP-0.3 NA.

When local altimeter setting not received, use Walla Walla altimeter setting: increase all DA/MDA 120 feet and visibility LPV all Cats ¼ mile, LNAV/VNAV all Cats ½ mile, LNAV Cats C and D ¼ mile and Circling Cat D ¼ mile. VDP and Baro-VNAV NA when using Walla Walla altimeter setting.

MISSED APPROACH: Climb to 5000 direct DRVIG and via track 332° to GINLE and hold.

ASOS 118.325	CHINOOK APP CON* 133.15 379.15	PENDLETON TOWER* 119.7 (CTAF) 0 257.8	GND CON 121.9 257.8	UNICOM 122.95
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5000 ↑	DRVIG ✦	trk 332°	GINLE △	VGSI and RNAV glidepath not coincident.			
<p>*LNAV only</p> <p>*0.9 NM to RW29</p> <p>ADXAB 5 NM to RW29</p> <p>RW29</p> <p>CUPOK</p> <p>SERDY</p> <p>7 NM Holding Pattern</p> <p>112° → 6400</p> <p>← 292°</p> <p>292°</p> <p>3160*</p> <p>4800</p> <p>GS 3.00° TCH 55</p>							
0.9				4.1 NM	4.9 NM	6.2 NM	
CATEGORY		A		B		C	D
LPV	DA			1747-1 250 (300-1)			
LNAV/ VNAV	DA			1801-1 304 (400-1)			
LNAV MDA	1860-1 363 (400-1)					1860-1¼ 363 (400-1¼)	
CIRCLING	1920-1 423 (500-1)		1960-1 463 (500-1)		1960-1½ 463 (500-1½)		2060-2 563 (600-2)

REIL Rwy 11 and 29 **Ⓛ**
MIRL Rwy 11-29 **Ⓛ**
HIRL Rwy 7-25 **Ⓛ**

VORTAC PDT 114.7 Chan 94	APP CRS 073°	Rwy Idg TDZE Apt Elev	6301 1486 1497
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VOR RWY 7

PENDLETON/ EASTERN OREGON RGNL AT PENDLETON (PDT)

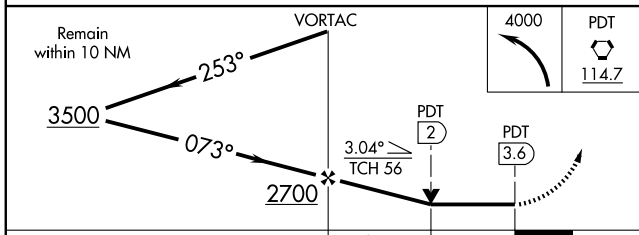
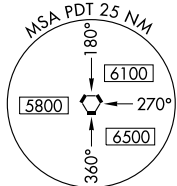
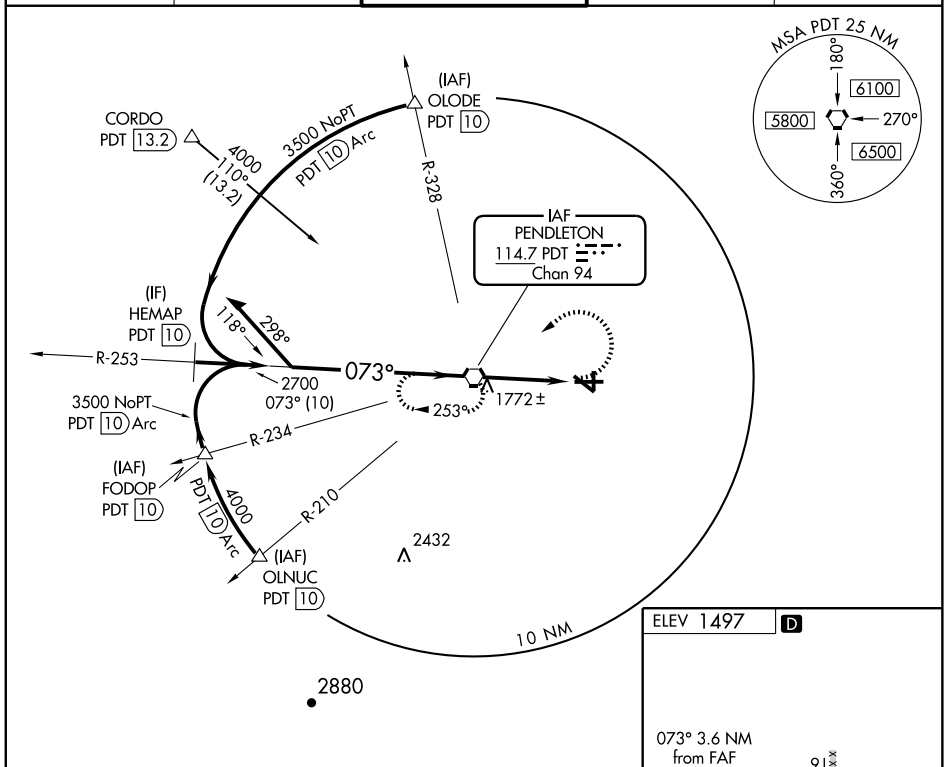
- ▼** Inoperative table does not apply to S-7 Cat C.
 Visibility reduction by helicopters NA.
▲ When local altimeter setting not received, use Walla Walla altimeter setting and increase all MDA 120 feet, and all visibilities ½ mile.
 Inoperative table does not apply when using Walla Walla altimeter setting.
 VDP NA when using Walla Walla altimeter setting.

ODALS



MISSED APPROACH: Climbing left turn to 4000 direct PDT VORTAC and hold, continue climb-in-hold to 4000.

ASOS 118.325	CHINOOK APP CON* 133.15 379.15	PENDLETON TOWER* 119.7 (CTAF) 0 257.8	GND CON 121.9 257.8	UNICOM 122.95
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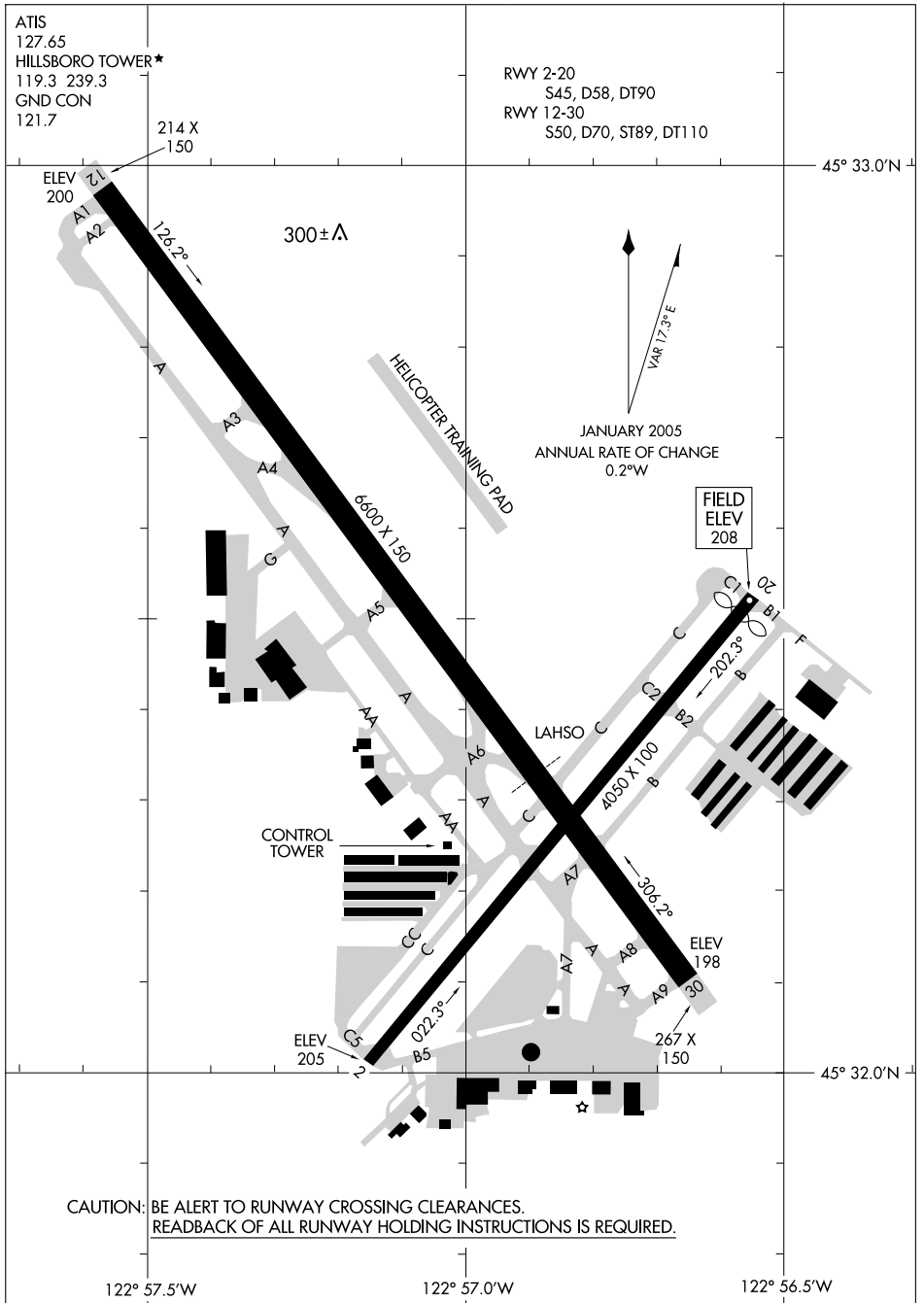


CATEGORY	A	B	C	D
S-7	2040-¾ 554 (600-¾)	2040-1½ 554 (600-1½)	2040-1¾ 554 (600-1¾)	2040-2 563 (600-2)
CIRCLING	2040-1 543 (600-1)	2040-1½ 543 (600-1½)	2040-2 563 (600-2)	2040-2 563 (600-2)

FAF to MAP 3.6 NM					
Knots	60	90	120	150	180
Min:Sec	3:36	2:24	1:48	1:26	1:12

AIRPORT DIAGRAM

AL-5063 (FAA)

 PORTLAND-HILLSBORO (HIO)
 PORTLAND, OREGON


CANBY SEVEN DEPARTURE

SL-5063 (FAA)

PORTLAND-HILLSBORO (HIO)

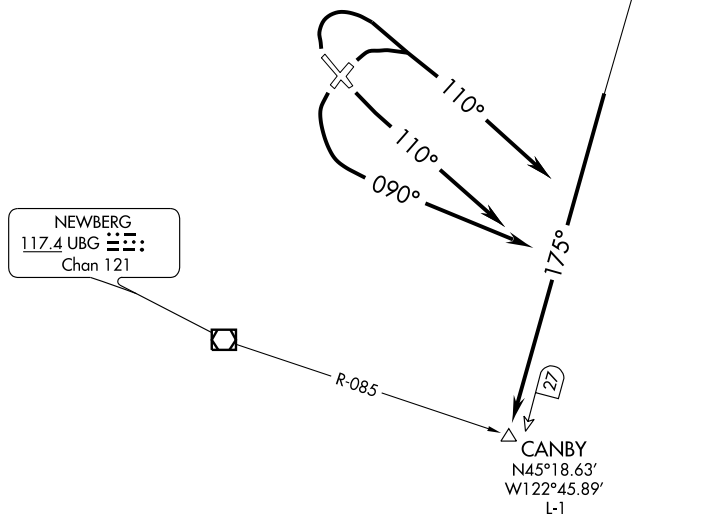
PORTLAND, OREGON

ATIS 127.65
GND CON
121.7
HILLSBORO TOWER ★
119.3 (CTAF) 239.3
PORTLAND DEP CON
126.0 284.6

BATTLEGROUND
116.6 BTG
Chan 113

TAKE-OFF MINIMUMS

Rwy 2: Standard with minimum climb of 307' per NM to 2700.
Rwy 12: Standard with minimum climb of 308' per NM to 2700.
Rwy 20: Standard.
Rwy 30: Standard with minimum climb of 280' per NM to 2700.



TAKE-OFF OBSTACLE NOTES

Rwy 2: Multiple roads beginning 246' from DER, 3' right of centerline, up to 15' AGL/220' MSL.
Rwy 12: Multiple trees beginning 1,842' from DER, 222' left of centerline, up to 125' AGL/324' MSL.
Multiple trees beginning 3,629' from DER, 46' right of centerline, up to 143' AGL/332' MSL.
Rwy 20: Multiple trees and pole beginning 967' from DER, 118' left of centerline, up to 93' AGL/292' MSL.
Vent on hangar 63' from DER, 428' left of centerline, 26' AGL/225' MSL.
Multiple trees and antenna on bldg beginning 965' from DER, 449' right of centerline, up to 74' AGL/273' MSL.
Rwy 30: Multiple trees beginning 1,664' from DER, 623' right of centerline, up to 194' AGL/363' MSL.
Pole 702' from DER, 603' left of centerline, 26' AGL/215' MSL.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 2, 30: Turn right heading 110°, thence

TAKE-OFF RUNWAY 12: Turn left heading 110°, thence

TAKE-OFF RUNWAY 20: Turn left heading 090°, thence

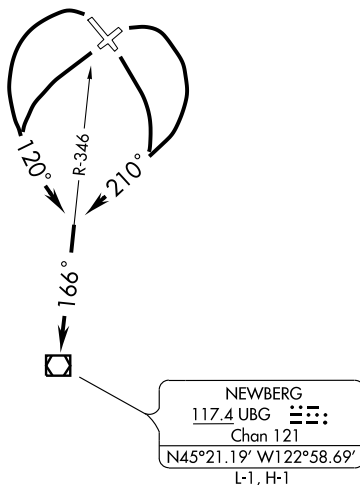
. . . . Intercept and proceed via BTG R-175 to CANBY INT. Thence via (assigned route).

FARMINGTON FOUR DEPARTURE

SL-5063 (FAA)

PORTLAND-HILLSBORO (HIO)
PORTLAND, OREGON

ATIS 127.65
GND CON
121.7
HILLSBORO TOWER ★
119.3 (CTAF) 239.3
PORTLAND DEP CON
126.0 284.6

TAKE-OFF MINIMUMS

Rwy 2: Standard with minimum climb of 307' per NM to 2700.

Rwys 12, 20: Standard.

Rwy 30: 200-1¼ or standard with minimum climb of 223' per NM to 500.

Alternatively, with standard takeoff minimums and a normal 200' per NM climb gradient, takeoff must occur no later than 1600' prior to departure end of runway.

TAKE-OFF OBSTACLE NOTES

Rwy 2: Multiple roads beginning 246' from DER, 3' right of centerline, up to 15' AGL/220' MSL.

Rwy 12: Multiple trees beginning 1,842' from DER, 222' left of centerline, up to 125' AGL/324' MSL.

Multiple trees beginning 3,629' from DER, 46' right of centerline, up to 143' AGL/332' MSL.

Rwy 20: Multiple trees and pole beginning 967' from DER, 118' left of centerline, up to 93' AGL/292' MSL.

Vent on hangar 63' from DER, 428' left of centerline, 26' AGL/225' MSL.

Multiple trees and antenna on bldg beginning 965' from DER, 449' right of centerline, up to 74' AGL/273' MSL.

Rwy 30: Multiple trees beginning 1,664' from DER, 623' right of centerline, up to 194' AGL/363' MSL.

Pole 702' from DER, 603' left of centerline, 26' AGL/215' MSL.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 2, 12: Turn right heading 210°, thence

TAKE-OFF RUNWAYS 20, 30: Turn left heading 120°, thence

. . . . Intercept and proceed via UBG R-346 to UBG VOR/DME. Thence via (assigned route).

HELNS FOUR ARRIVAL

ST-330 (FAA)

PORTLAND, OREGON

PORTLAND APP CON

124.35 299.2

PORTLAND INTL ATIS

128.35 269.9

PORTLAND-HILLSBORO ATIS

127.65

SEATTLE

116.8 SEA

Chan 115

N47°26.12'-W122°18.58'

L-1, H-1

10000
+9700
161°
(71)HELNS
N46°15.42'
W122°18.58'10000
180°
(111)7000
(22)

BATTLE GROUND

116.6 BTG

Chan 113

N45°44.87'-W122°35.49'

KRATR

N46° 05.39' - W122° 24.17'

NOTE: Maintain the last assigned altitude. Upon receipt of "Descend via the HELNS4": . . .

PROP/TURBOPROP: Cross at and maintain 10,000'.

TURBOJET: Cross at and maintain 12,000' at 300 KIAS or less.

PORTLAND
INTLPORTLAND-
HILLSBORO

PORTLAND-TROUTDALE

AURORA
STATE

NOTE: Chart not to scale.

NOTE: DME and RADAR required.

SEATTLE TRANSITION (SEA.HELNS4): From over SEA VORTAC via SEA R-161 to HELNS DME FIX. Thence....

.... From over HELNS DME FIX via BTG R-360 to BTG VORTAC. Thence....

LANDING EAST: Depart BTG VORTAC heading 280° for vectors to final approach course.

LANDING WEST: Depart BTG VORTAC heading 110° for vectors to final approach course.

LOC I-HIO	APP CRS	Rwy Idg	6600
110.7	123°	TDZE	199
		Apt Elev	204

ILS or LOC RWY 12

PORTLAND-HILLSBORO (HIO)

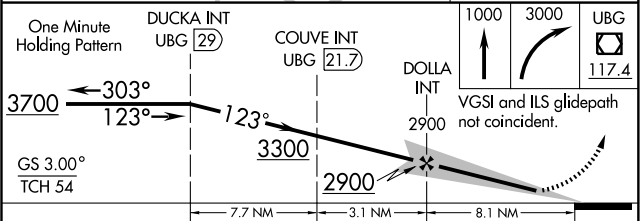
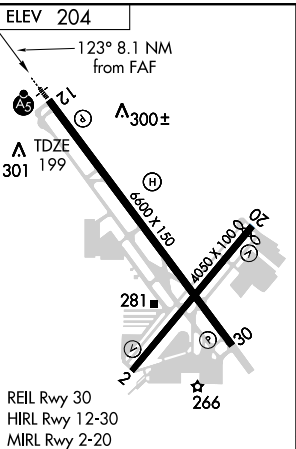
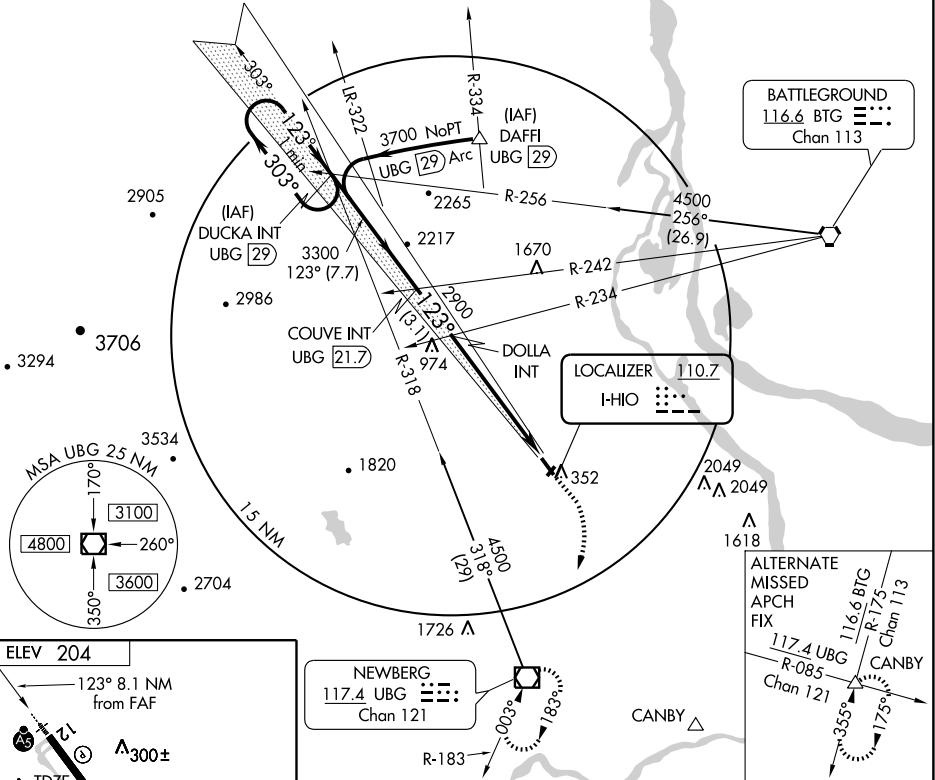
⚠

DUCKA INT requires UBG VOR/DME and BTG VORTAC.
If local altimeter setting not received, use Portland Intl
altimeter setting and increase all DAs/MDAs 60 feet.

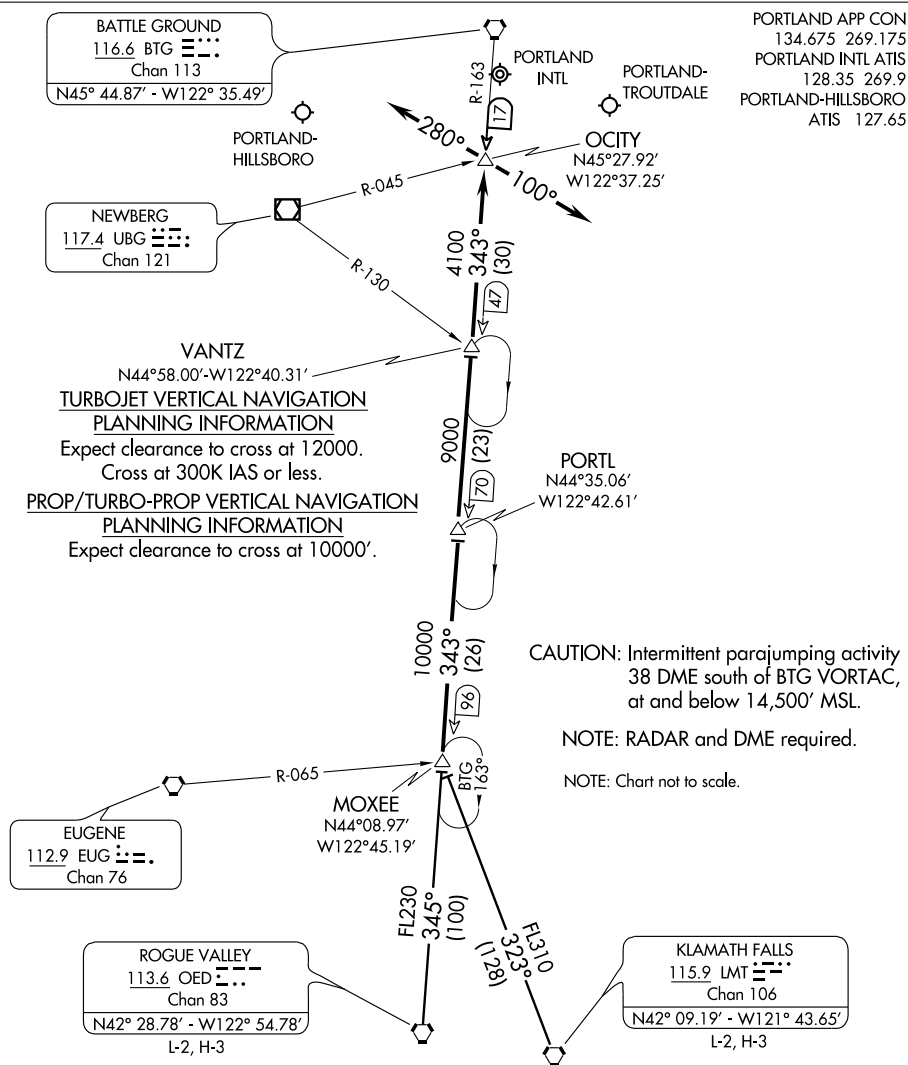
MAISR

MISSED APPROACH: Climb to 1000 then climbing
right turn to 3000 direct UBG VOR/DME and hold.

ATIS 127.65	PORTLAND APP CON 126.0 284.6	HILLSBORO TOWER ★ 119.3 (CTAF) 239.3	GND CON 121.7	UNICOM 122.95
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CATEGORY	A	B	C	D
S-ILS 12	399-½ 200 (200-½)			
S-LOC 12	1140-¾ 941 (1000-¾)	1140-2¼ 941 (1000-2¼)	1140-2½ 941 (1000-2½)	1140-3 936 (1000-3)
CIRCLING	1140-1¼ 936 (1000-1¼)	1140-2¾ 936 (1000-2¾)	1140-3 936 (1000-3)	1140-3 936 (1000-3)



KLAMATH FALLS TRANSITION (LMT.MOXEE6): From over LMT VORTAC via LMT R-323 to MOXEE INT. Thence . . .

ROGUE VALLEY TRANSITION (OED.MOXEE6): From over OED VORTAC via OED R-345 to MOXEE INT. Thence . . .

. . . From over MOXEE INT via BTG R-163 to OCITY INT. Thence via:

Landing East - Depart OCITY INT heading 280° for vectors to final approach course.

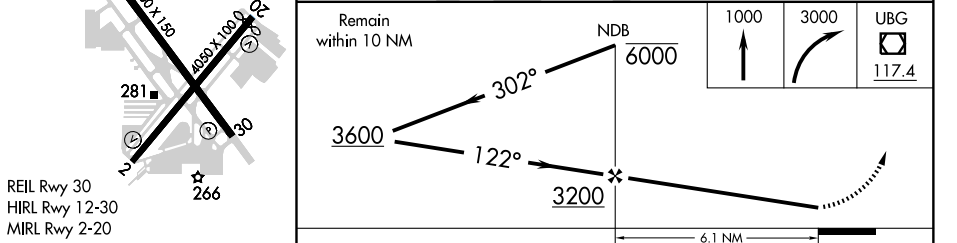
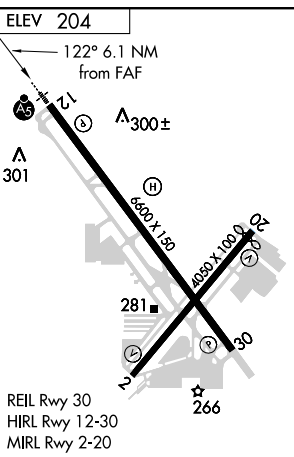
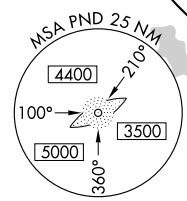
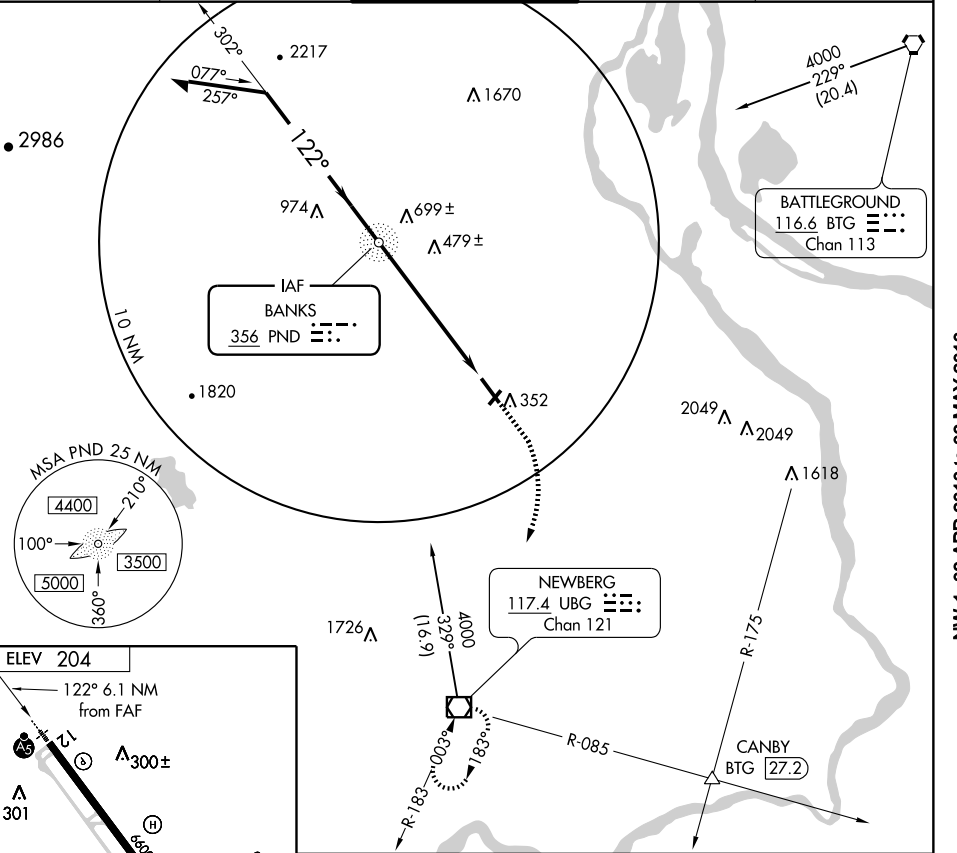
Landing West - Depart OCITY INT heading 100° for vectors to final approach course.

LOST COMMUNICATIONS: After OCITY INT, proceed direct BTG VORTAC.

▼

MISSED APPROACH: Climb to 1000, then climbing right turn to 3000 direct UBG VOR/DME and hold.

ATIS 127.65	PORTLAND APP CON 126.0 284.6	HILLSBORO TOWER★ 119.3 (CTAF) 239.3	GND CON 121.7	UNICOM 122.95
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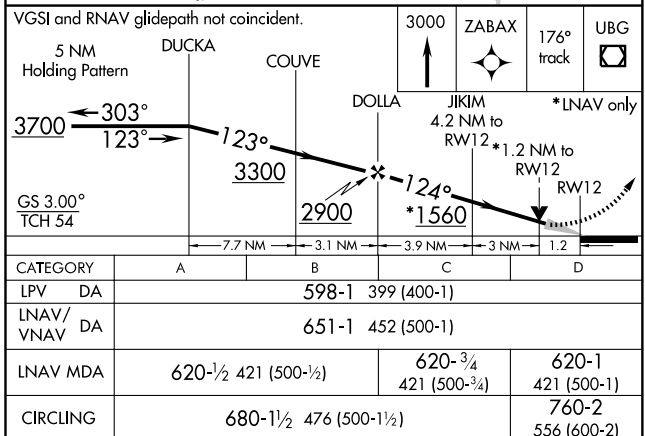


FAF to MAP 6.1 NM						CATEGORY	A	B	C	D
Knots	60	90	120	150	180	CIRCLING	900-1 696 (700-1)		900-2 696 (700-2)	960-2½ 756 (800-2½)
Min:Sec	6:06	4:04	3:03	2:26	2:02					

NW-1. 08 APR 2010 to 06 MAY 2010

	<p>For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 49°C (120°F). DME/DME RNP-0.3 NA.</p> <p>If local altimeter setting not received, use Portland Intl altimeter setting and increase all DAs/MDAs 60 feet.</p> <p>VDP NA when using Portland Intl altimeter setting.</p> <p>For inoperative MALSR, increase LPV all Cats visibility to 1½, and LNAV Cat D visibility 1¼. Baro-VNAV NA when using Portland Intl altimeter setting.</p>		<p>MISSED APPROACH: Climb to 3000 direct ZABAX and via 176° track to UBG VOR/DME and hold, continue climb-in-hold to 3000.</p>
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The map illustrates a flight path starting from Newberg UBG (marked with a square) and heading towards DUCKA (marked with a star). Key waypoints along the path include COUVE, DOLLA, JIKIM, RW12, and ZABAX. The path is marked with various altitudes and distances, such as 5 NM, 3700 NoPT, 237° (8.1), 3300, 2900, 123° (3.1), 974, 124°, 363±, 352, 4500 to DUCKA, 339° (2.9), 1726 A, and 5 NM. The map also shows the coastline and surrounding terrain, with a scale bar indicating 5000 feet. A box in the bottom left corner contains the text "ELEV 204".



SCAPO FOUR DEPARTURE

SL-5063 (FAA)

PORTLAND-HILLSBORO (HIO)
PORTLAND, OREGON

ATIS 127.65

GND CON

121.7

HILLSBORO TOWER ★

119.3 (CTAF) 239.3

PORTLAND DEP CON

126.0 284.6

SCAPO
N45°45.13'
W123°01.70'
L-1BATTLEGROUND
116.6 BTG
Chan 113LOCALIZER 110.5
I-PDX
Chan 42NEWBERG
117.4 UBG
Chan 121TAKE-OFF MINIMUMS

Rwy 2: Standard.

Rwy 12: Standard with minimum climb of 308' per NM
to 2700.

Rwy 20: Standard.

Rwy 30: 200-1¼ or standard with minimum climb of
223' per NM to 2700.TAKE-OFF OBSTACLE NOTES

Rwy 2: Multiple roads beginning 246' from DER, 3' right of centerline, up to 15' AGL/220' MSL.

Rwy 12: Multiple trees beginning 1,842' from DER, 222' left of centerline, up to 125' AGL/324' MSL.

Multiple trees beginning 3,629' from DER, 46' right of centerline, up to 143' AGL/332' MSL.

Rwy 20: Multiple trees and pole beginning 967' from DER, 118' left of centerline, up to 93' AGL/292' MSL.

Vent on hangar 63' from DER, 428' left of centerline, 26' AGL/225' MSL.

Multiple trees and antenna on bldg beginning 965' from DER, 449' right of centerline, up to
74' AGL/273' MSL.

Rwy 30: Multiple trees beginning 1,664' from DER, 623' right of centerline, up to 194' AGL/363' MSL.

Pole 702' from DER, 603' left of centerline, 26' AGL/215' MSL.


DEPARTURE ROUTE DESCRIPTION

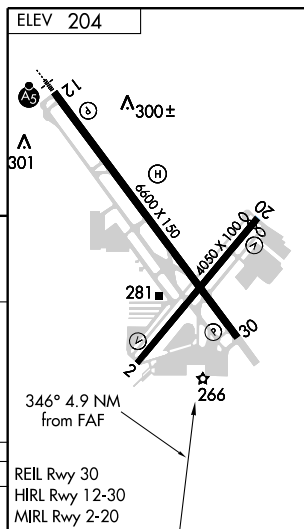
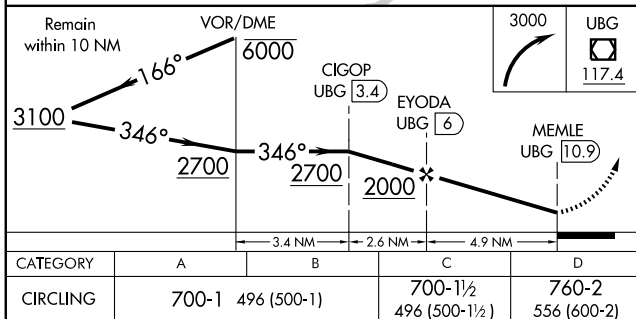
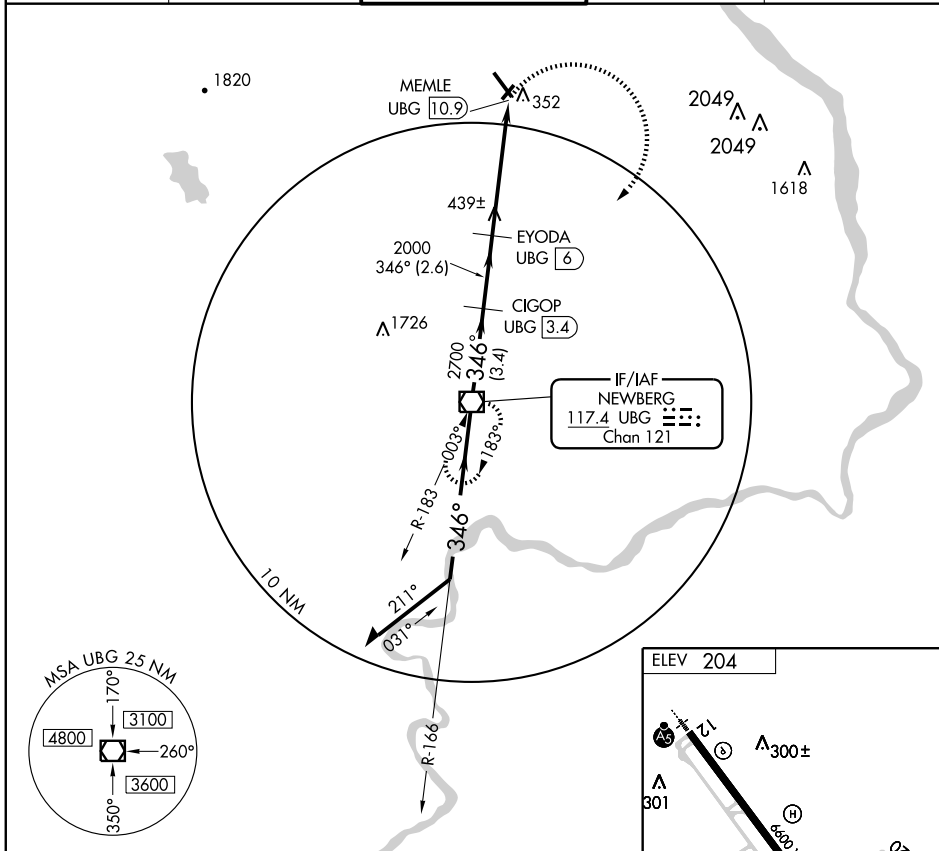
TAKE-OFF RUNWAYS 2, 12, AND 20: Turn left heading 280°, thence . . .TAKE-OFF RUNWAY 30: Climb via heading 303°, thence . . .

. . . Intercept and proceed via UBG R-334 to SCAPO INT, thence via (assigned route).

VOR/DME UBG 117.4 Chan 121	APP CRS 346°	Rwy Idg TDZE Apt Elev	N/A N/A 204
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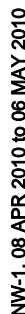
VOR/DME-C
PORTLAND-HILLSBORO (HIO)

			MISSED APPROACH: Climbing right turn to 3000 direct UBG VOR/DME and hold.	
ATIS 127.65	PORTLAND APP CON 126.0 284.6	HILLSBORO TOWER★ 119.3 (CTAF) 0 239.3	GND CON 121.7	UNICOM 122.95



10070

PORTLAND INTL (PDX)
PORTLAND, OREGON



KIMBERLY TRANSITION (IMB, BONVL6): From over IMB VORTAC via IMB R-287 to DUFUR, then via PDX R-079 to BONVL, Thence. . . .

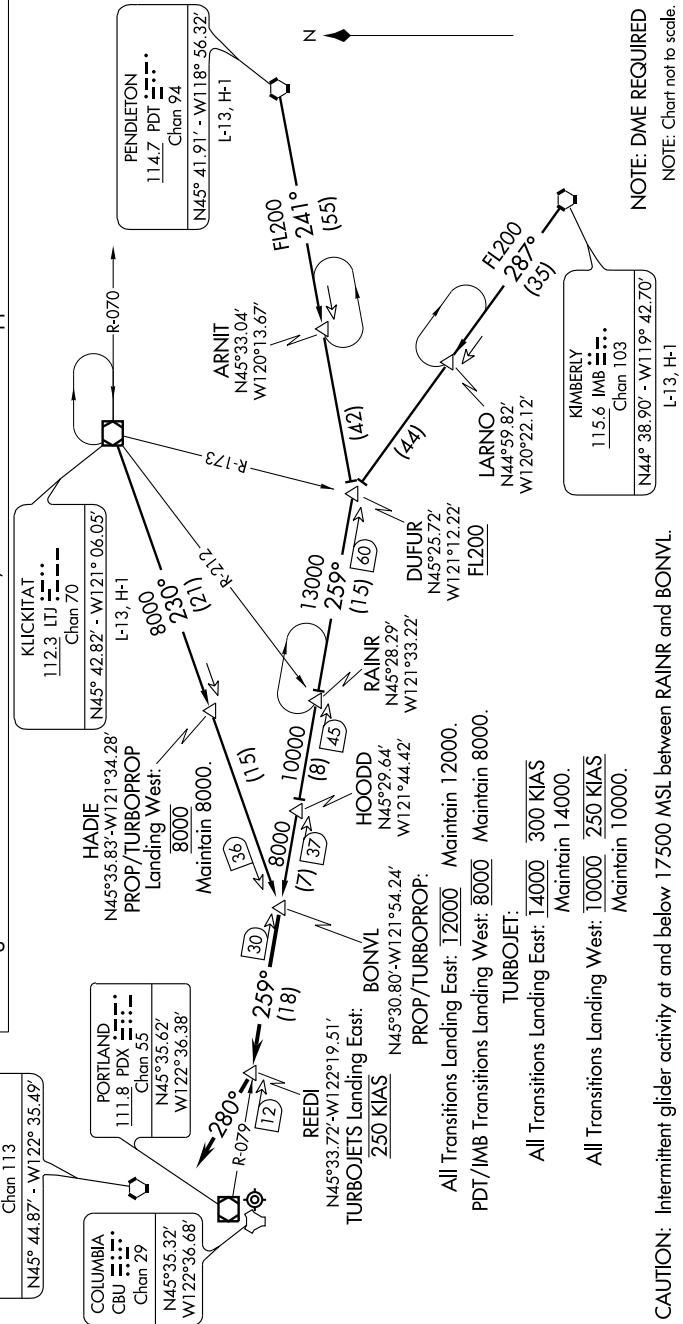
KLUICKITAT TRANSITION (LTJ, BONVL6): From over LTJ VOR/DME via LTJ R-230 to BONVL. Thence. . . .

PENDLETON TRANSITION (PDT, BONVL6): From over PDT VORTAC via PDT R-241 to DUFUR, then via PDX R-079 to BONVL. Thence. . . .

....From over BONVL:

Landing East - via PDX R-079 to REEDI DME fix. Depart REEDI DME fix heading 280° for radar vectors to final approach course.

Landing West - via PDX R-079 to REEDI DME fix, for radar vectors to final approach course.



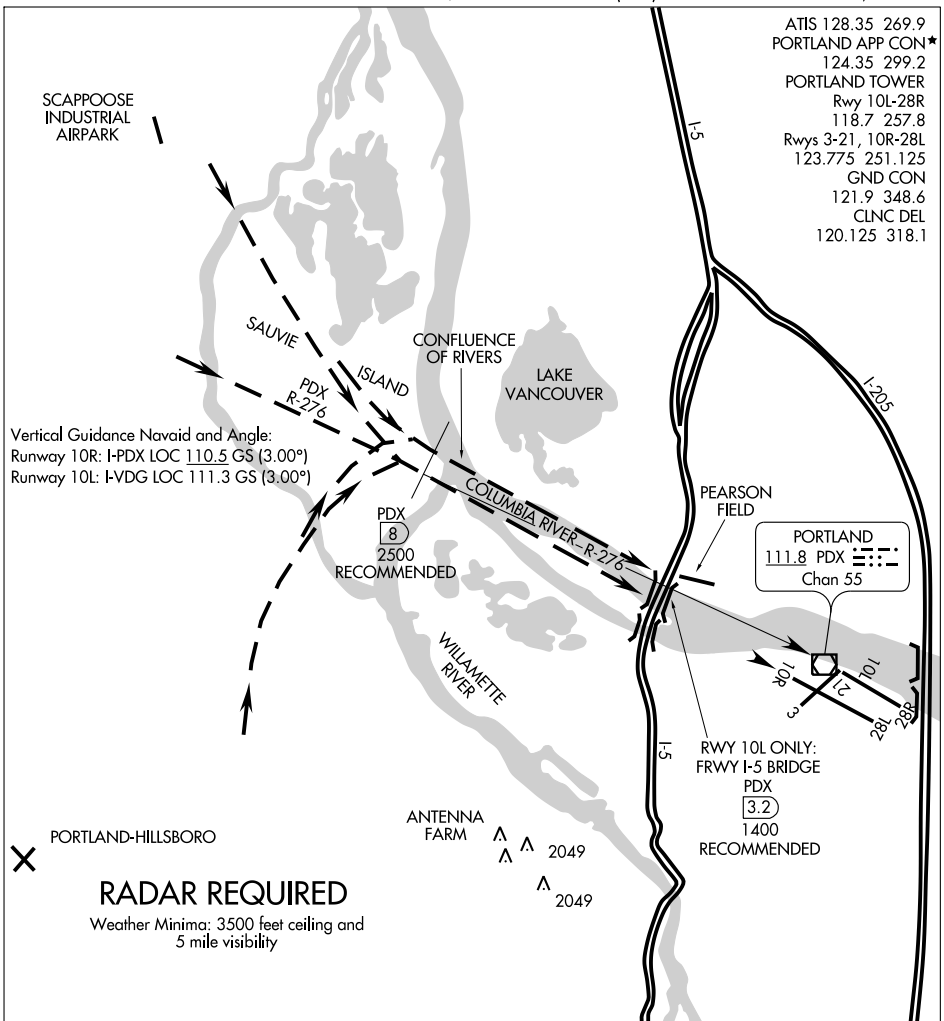
CAUTION: Intermittent glider activity at and below 17500 MSL between RAINR and BONVL.

COLUMBIA VISUAL RWY 10L/R

AL-330 (FAA)

PORTLAND INTL (PDX)

PORTLAND, OREGON



ATIS 128.35 269.9
 PORTLAND APP CON★
 124.35 299.2
 PORTLAND TOWER
 Rwy 10L-28R
 118.7 257.8
 Rwy 3-21, 10R-28L
 123.775 251.125
 GND CON
 121.9 348.6
 CLNC DEL
 120.125 318.1

Vertical Guidance Navaid and Angle:
 Runway 10R: I-PDX LOC 110.5 GS (3.00°)
 Runway 10L: I-VDG LOC 111.3 GS (3.00°)

X
RADAR REQUIRED
 Weather Minima: 3500 feet ceiling and
 5 mile visibility

PROCEDURE NOT AUTHORIZED AT NIGHT.

HELNS FOUR ARRIVAL

ST-330 (FAA)

PORTLAND, OREGON

PORTLAND APP CON

124.35 299.2

PORTLAND INTL ATIS

128.35 269.9

PORTLAND-HILLSBORO ATIS

127.65

SEATTLE

116.8 SEA

Chan 115

N47°26.12'-W122°18.58'

L-1, H-1

10000
+9700
161°
(71)HELNS
N46°15.42'
W122°18.58'10000
180°
(111)7000
(22)

BATTLE GROUND

116.6 BTG

Chan 113

N45°44.87'-W122°35.49'

KRATR

N46° 05.39' - W122° 24.17'

NOTE: Maintain the last assigned altitude. Upon receipt of "Descend via the HELNS4": . . .

PROP/TURBOPROP: Cross at and maintain 10,000'.

TURBOJET: Cross at and maintain 12,000' at 300 KIAS or less.

PORTLAND
INTLPORTLAND-
HILLSBORO

PORTLAND-TROUTDALE

AURORA
STATE

NOTE: Chart not to scale.

NOTE: DME and RADAR required.

SEATTLE TRANSITION (SEA.HELNS4): From over SEA VORTAC via SEA R-161 to HELNS DME FIX. Thence....

.... From over HELNS DME FIX via BTG R-360 to BTG VORTAC. Thence....

LANDING EAST: Depart BTG VORTAC heading 280° for vectors to final approach course.

LANDING WEST: Depart BTG VORTAC heading 110° for vectors to final approach course.

LOCALIZER I-PDX 110.5 Chan 42	APCH CRS 101°	Rwy Idg 11,000 TDZE 24 Arprt Elev 30
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JAL-330 [USAF]

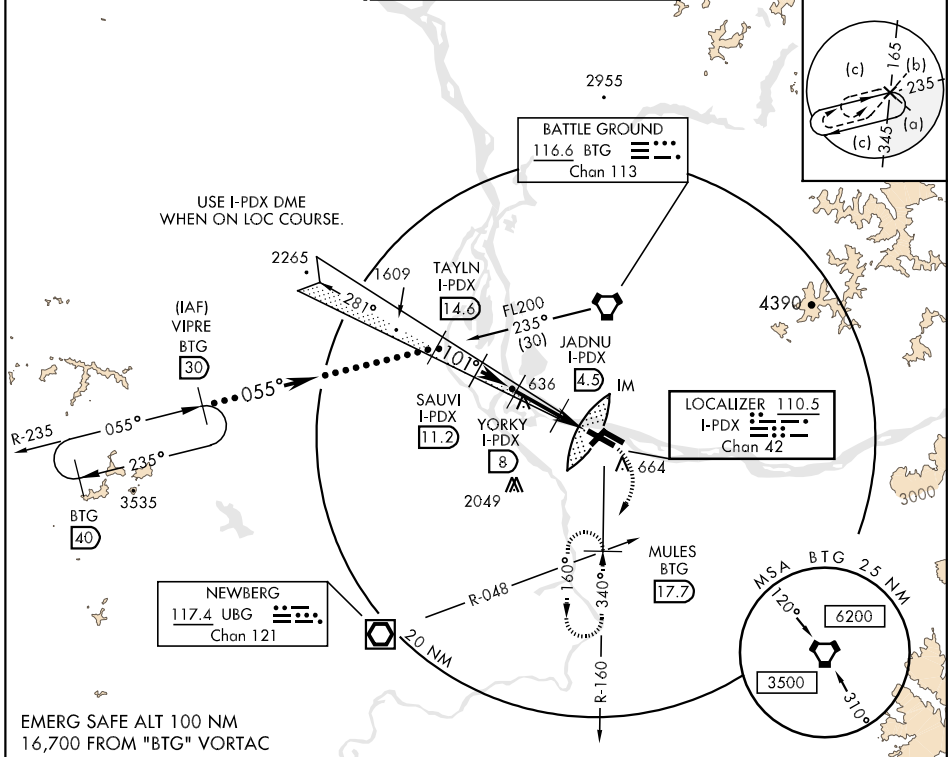
PORTLAND INTL (KPDX)

▼ * When ALS inop, increase RVR to 40 and vis to ¾ mile.
 ** When ALS inop, increase CAT C RVR to 50 and vis to 1 mile, CAT DE RVR to 60 and vis to 1 ¼ miles.

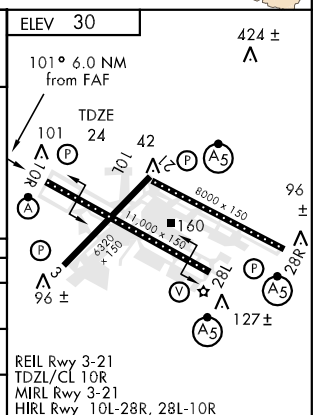
ALSF-2

MISSED APPROACH: Climb to 900, then climbing right turn to 4000 via BTG VORTAC R-160 to MULES and hold.

ATIS ARR 128.35 269.9 DEP 120.625 239.25	PORTLAND APP CON 124.35 299.2	118.7 257.8 123.775 251.125	PORTLAND TOWER Rwy 10L-28R Rwy 3-21, 10R-28L	GND CON 121.9 348.6	CLNC DEL 120.125 318.1
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CATEGORY	C		D		E	
	224/18		200 (200-¾)		224/24	
	380/24		380/40		356 (400-½)	
	740-2		1020-3		1060-3	
1710 (800-2)		990 (1000-3)		1030 (1100-3)		



NW-1, 08 APR 2010 to 06 MAY 2010

LOCALIZER I-IAP 111.3 Chan 50	APCH CRS 279°	Rwy Idg 8000 TDZE 30 Arpt Elev 30
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JAL-330 [USAF]

PORTLAND INTL (KPDJ)

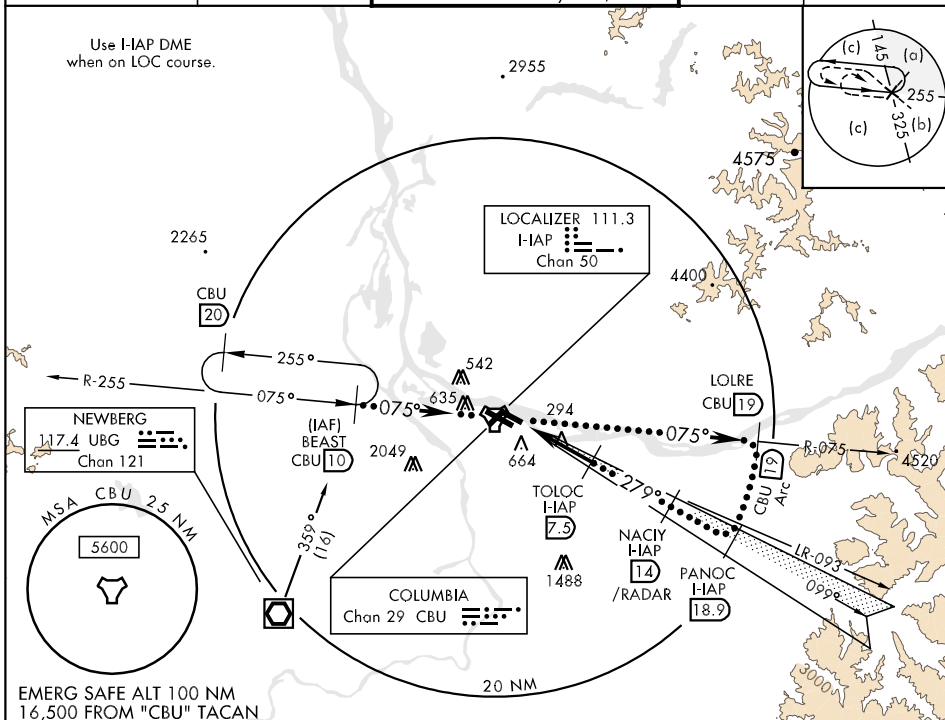
▼ * When ALS inop, increase CAT E vis to 2 miles.
 ** Circling NA at night to Rwy 3.



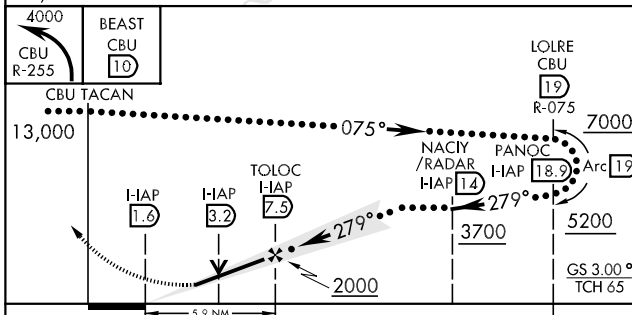
MISSED APPROACH: Climbing left turn to 4000
 via CBU TACAN R-255 to BEAST and hold.

ATIS ARR 128.35 269.9 DEP 120.625 239.25	PORTLAND APP CON 124.35 299.2	PORTLAND TOWER 118.7 257.8 Rwy 10L-28R 123.775 251.125 Rwy 3-21, 10R-28L	GND CON 121.9 348.6	CLNC DEL 120.125 318.1
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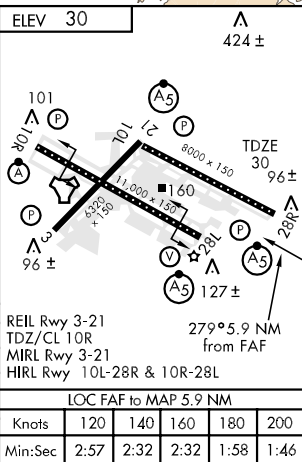
Use I-IAP DME
 when on LOC course.



EMERG SAFE ALT 100 NM
 16,500 FROM "CBU" TACAN



CATEGORY	C	D	E
S-ILS 28R	280/40	250	(300-34)
S-LOC 28R*	600/50 570 (600-1)	600/60 570 (600-14)	600-11/2 570 (600-1/2)
CIRCLING**	740-2 710 (800-2)	1020-3 990 (1000-3)	1060-3 1030 (1100-3)



TACAN CBU Chan 29	APCH CRS 106°	Rwy ldg 11,000 TDZE 24 Arpt Elev 30
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JAL-330 [USAF]

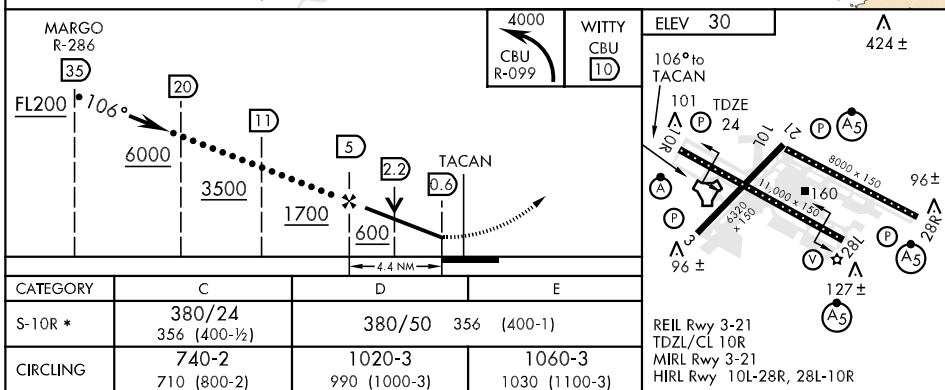
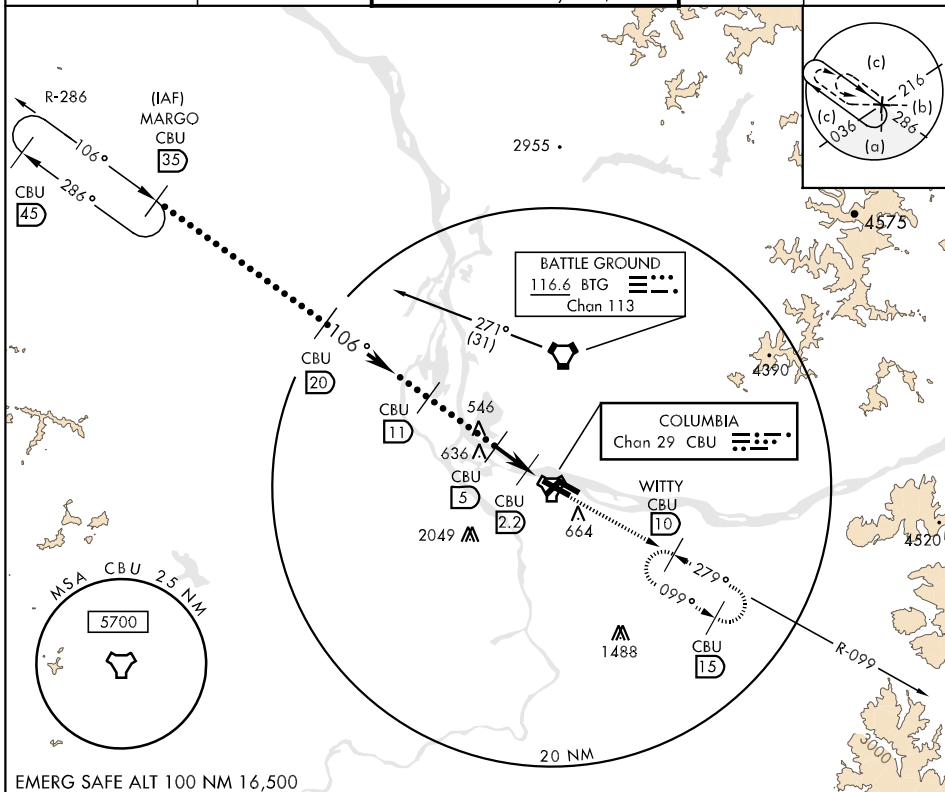
PORTLAND INTL (KPDJ)

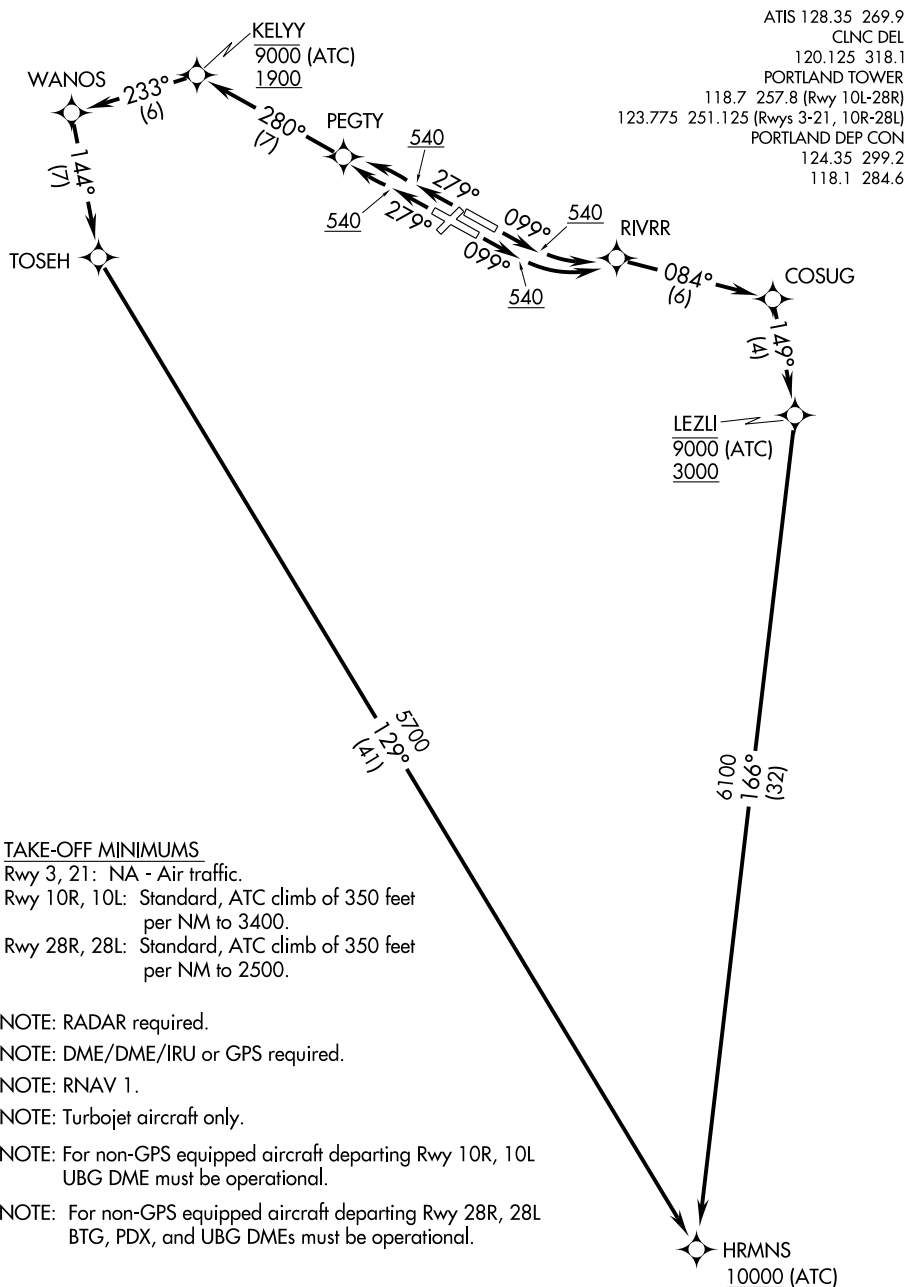
V * When ALS inop, increase CAT C RVR to 50 and vis to 1 mile.



MISSED APPROACH: Climb to 4000 via CBU TACAN R-099 to WITTY/CBU 10 DME and hold.

ATIS ARR 128.35 269.9 DEP 120.625 239.25	PORTLAND APP CON 124.35 299.2	PORTLAND TOWER 118.7 257.8 Rwy 10L-28R 123.775 251.125 Rwy 3-21, 10R-28L	GND CON 121.9 348.6	CLNC DEL 120.125 318.1
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DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 10R: Climb heading 099° to 540 feet, then left turn direct RIVRR, and via 084° track to COSUG, and via 149° track to cross LEZLI at or below 9000 (ATC)/3000, then via 166° track to HRMNS, cross HRMNS at or above 10000 (ATC), thence....

TAKE-OFF RUNWAY 10L: Climb heading 099° to 540 feet, then left turn direct RIVRR, and via 084° track to COSUG, and via 149° track to cross LEZLI at or below 9000 (ATC)/3000, then via 166° track to HRMNS, cross HRMNS at or above 10000 (ATC), thence....

TAKE-OFF RUNWAY 28R: Climb heading 279° to 540 feet, then left turn direct PEGTY, and via 280° track to cross KELYY at or below 9000 (ATC)/1900, then via track 233° to WANOS, and via 144° track to TOSEH, and via 129° track to HRMNS, cross HRMNS at or above 10000 (ATC), thence....

TAKE-OFF RUNWAY 28L: Climb heading 279° to 540 feet, then right turn direct PEGTY, and via 280° track to cross KELYY at or below 9000 (ATC)/1900, then via track 233° to WANOS, and via 144° track to TOSEH, and via 129° track to HRMNS, cross HRMNS at or above 10000 (ATC), thence....

....maintain assigned altitude, expect filed altitude 10 minutes after departure.

TAKE-OFF OBSTACLE NOTES

Rwy 10L: Rising terrain and vehicle on road beginning 7' from DER, 376' left of centerline, up to 17' AGL/60' MSL.

Rwy 10R: Pole 1996' from DER, 758' right of centerline, 54' AGL/74' MSL.

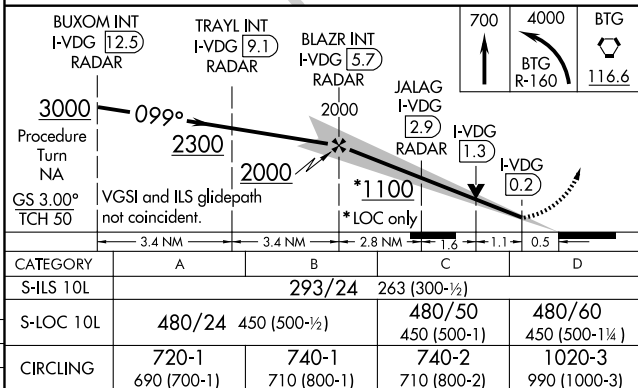
Rwy 28L: Trees 1873' from DER, 836' left of centerline, 50' AGL/88' MSL.

Rwy 28R: Multiple signs, poles, and vehicle on road beginning 876' from DER, 654' right of centerline, up to 27' AGL/69' MSL.

MALSR

MISSED APPROACH: Climb to 700, then climbing left turn to 4000 via BTG R-160 to BTG VORTAC and hold.

RADAR or DME REQUIRED



ILS or LOC RWY 10R
PORTLAND INTL (PDX)

- MISSED APPROACH:** Climb to 900, then climbing right turn to 4000 via BTG R-160 to MULES INT/BTG VORTAC 17.7 DME and hold.

[illegible]

REIL Rwy 3 and 21
TDZ/CL Rwy 10R
MIRL Rwy 3-21
HIRL Rwy 10L-28R and 10R-28L

<p>SCAPO INT I-PDX 21.6</p> <p>SAUVI INT I-PDX 11.2</p> <p>YORKY INT I-PDX 8</p> <p>JADNU I-PDX 4.5</p> <p>900</p> <p>4000</p> <p>BTG R-160</p> <p>MULES Δ</p> <p>4000</p> <p>101°</p> <p>2900</p> <p>2000</p> <p>2000</p> <p>*860</p> <p>I-PDX 2.9</p> <p>I-PDX 2</p> <p>IM</p> <p>*LOC only</p> <p>GS 3.00° TCH 53</p> <p>Procedure Turn NA</p> <p>VGSI and ILS glidepath not coincident.</p> <p>10.4 NM</p> <p>3.2</p> <p>3.4 NM</p> <p>1.6</p> <p>0.8</p> <p>0.1</p>						
CATEGORY	A		B	C	D	E
S-ILS 10R	224/18 200 (200-½)					224/24 200 (200-½)
S-LOC 10R	860/24 836 (900-½)	860/40 836 (900-¾)	860-2 836 (900-2)	860-2¼ 836 (900-2¼)	860-2½ 836 (900-2½)	
CIRCLING	860-1 830 (900-1)	860-1¼ 830 (900-1¼)	860-2 ½ 830 (900-2 ½)	1020-3 990 (1000-3)	1060-3 1030 (1100-3)	
DME MINIMUMS						
S-LOC 10R	380/24 356 (400-½)			380/40 356 (400-¾)		
CIRCLING	720-1 690 (700-1)	740-1 710 (800-1)	740-2 710 (800-2)	1020-3 990 (1000-3)		1060-3 1030 (1100-3)

ILS or LOC RWY 28L

PORTLAND INTL (PDX)

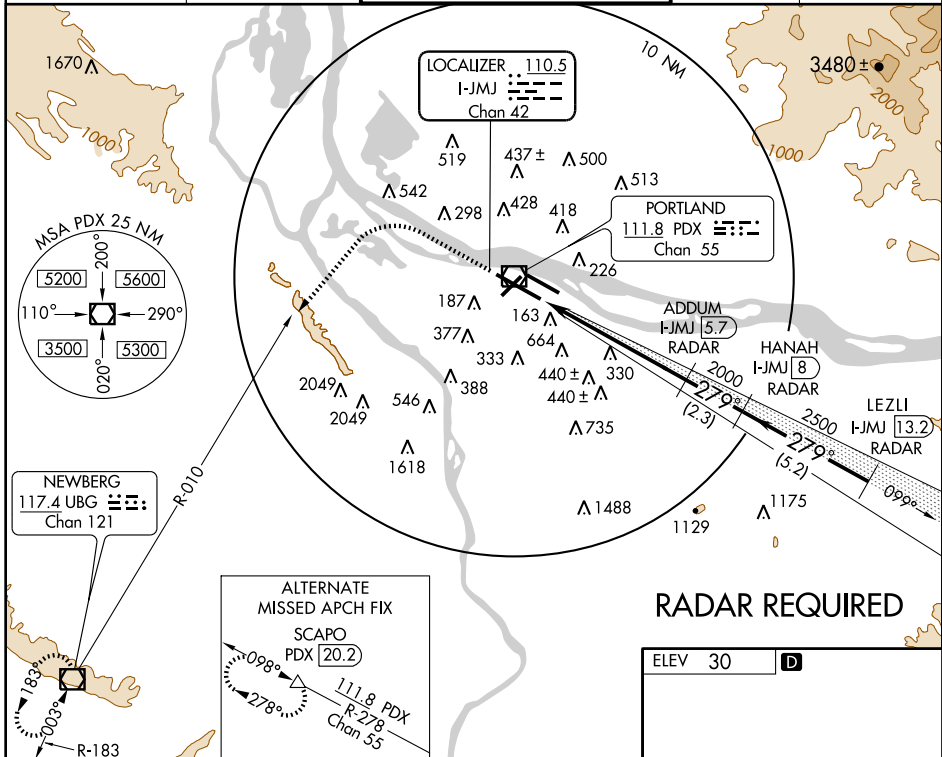
LOC/DME I-JMJ 110.5 Chan 42	APP CRS 279°	Rwy Idg 11000 TDZE 23 Apt Elev 30
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⚠ RADAR or DME required. For inoperative MALSR, increase S-ILS visibility to RVR 5000 all Cats and S-LOC Cat E visibility to 2 miles. Autopilot coupled approach NA below 580.

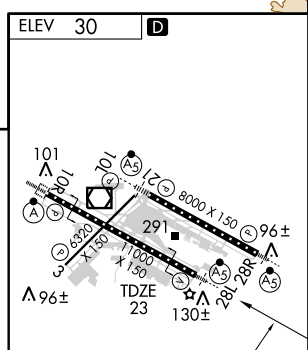
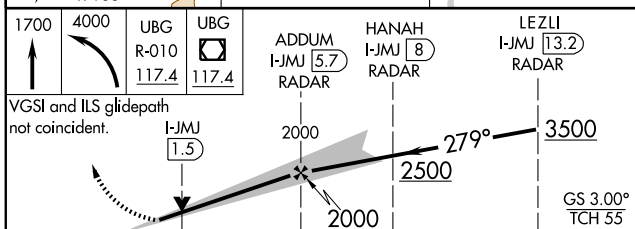
MALSR


MISSED APPROACH: Climb to 1700 then climbing left turn to 4000 via UBG R-010 to UBG VOR/DME and hold.

ATIS 128.35 269.9	PORTLAND APP CON ★ 124.35 299.2	PORTLAND TOWER Rwy 10L-28R 118.7 257.8 Rwys 3-21, 10R-28L 123.775 251,125	GND CON 121.9 348.6	CLNC DEL 120.125 318.1
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RADAR REQUIRED



CATEGORY	A	B	C	D	E
S-ILS-28L	306/24 283 (300-1/2)				
S-LOC-28L	620/24	597 (600-1/2)	620/50 597 (600-1)	620/60 597 (600-1 1/4)	620-1 1/2 597 (600-1 1/2)
CIRCLING	720-1 690 (700-1)	740-1 710 (800-1)	740-2 710 (800-2)	1020-3 990 (1000-3)	1060-3 1030 (1100-3)

REIL Rwys 3 and 21 TDZ/CL Rwy 10R MIRL Rwy 3-21 HRL Rwys 10L-28R and 10R-28L	FAF to MAP 5.9 NM
Knots	60 90 120 150 180
Min:Sec	5:54 3:56 2:57 2:22 1:58

LOC/DME HAP

111.3

Chan 50

APP CRS

279°

Rwy Idg TDZE

8000 30

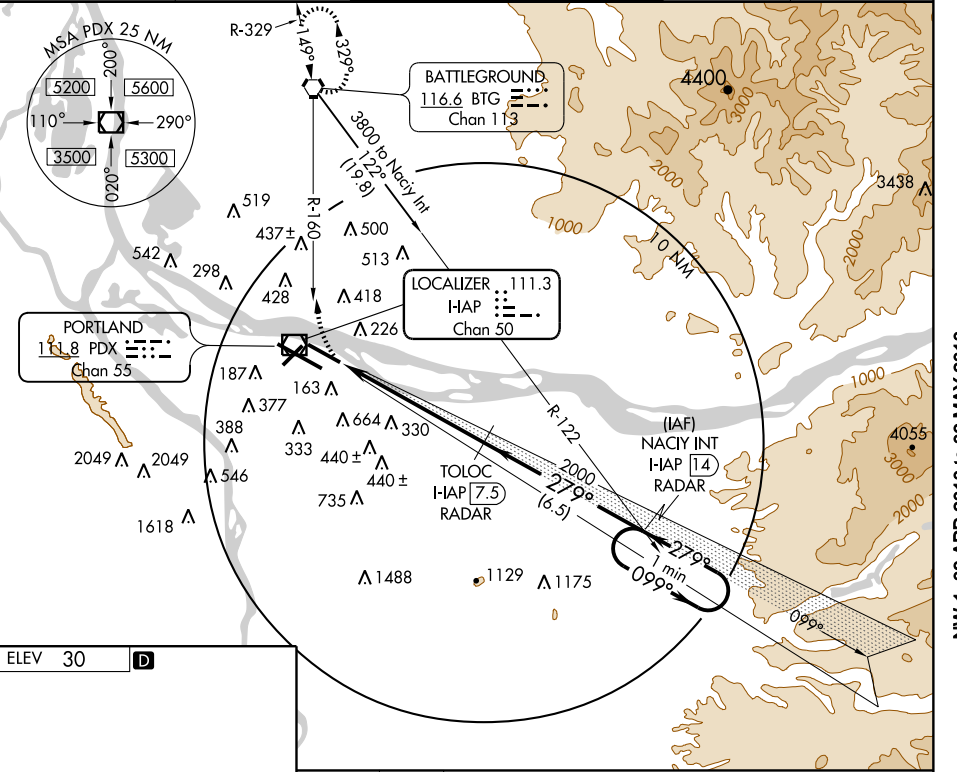
Apt Elev

30

MAJRS

MISSED APPROACH: Climbing right turn to 4000 via BTG R-160 to BTG VORTAC and hold.

ATIS	PORTLAND APP CON	PORTLAND TOWER	GND CON	CLNC DEL
128.35 269.9	124.35 299.2	Rwy 10L-28R 118.7 257.8 Rwys 3-21, 10R-28L 123.775 251.125	121.9 348.6	120.125 318.1



ELEV 30

REIL Rwys 3 and 21
TDZ/CL Rwy 10R
MIRL Rwy 3-21
HIRL Rwys 10L-28R and 10R-28L

FAF to MAP 5.9 NM

Knots	60	90	120	150	180
Min:Sec	5:54	3:56	2:57	2:22	1:58

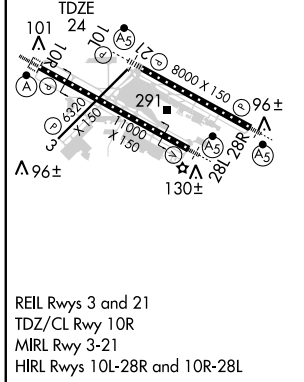
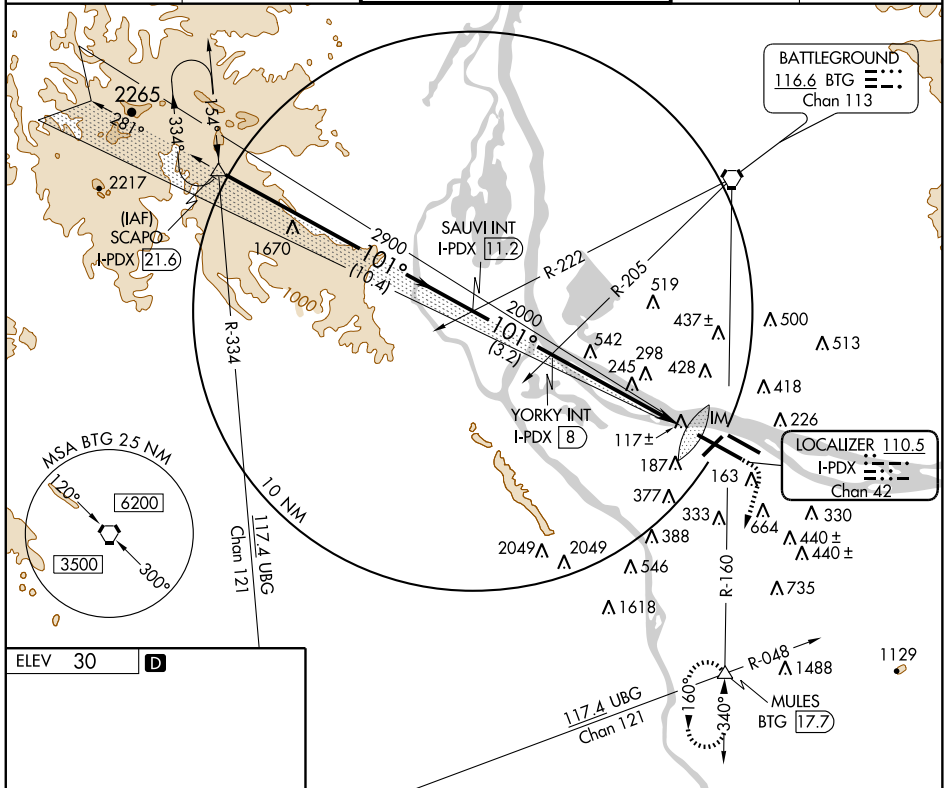
	4000	BTG 116.6	TOLOC I-HAP 7.5 RADAR	NACIY INT I-HAP 14 RADAR	One Minute Holding Pattern
	BTG R-160	Use I-HAP DME when on the localizer course.	I-HAP 3.2	I-HAP 1.6	
			2000	2000	099° → ← 279° 3800
			1.6	4.3 NM	6.5 NM
CATEGORY	A	B	C	D	
S-ILS 28R	280/40 250 (300-¾)				
S-LOC 28R	600/40	570 (600-¾)	600/50 570 (600-1)	600/60 570 (600-1½)	
CIRCLING	720-1 690 (700-1)	740-1 710 (800-1)	740-2 710 (800-2)	1020-3 990 (1000-3)	


NW-1. 08 APR 2010 to 06 MAY 2010

LOC/DME I-PDX 110.5 Chan 42	APP CRS 101°	Rwy Idg 11000 TDZE 24 Apt Elev 30
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ILS RWY 10R (CAT II) PORTLAND INTL (PDX)

<div><div><div></div><div></div></div></div>		ALSF-2 <div><div></div><div></div></div>	MISSED APPROACH: Climb to 900, then climbing right turn to 4000 via BTG R-160 to MULES Int/BTG VORTAC 17.7 DME and hold.				
ATIS 128.35 269.9		PORTLAND APP CON★ 124.35 299.2		PORTLAND TOWER Rwy 10L-28R 118.7 257.8 Rwys 3-21, 10R-28L 123.775 251.125		GND CON 121.9 348.6	CLNC DEL 120.125 318.1

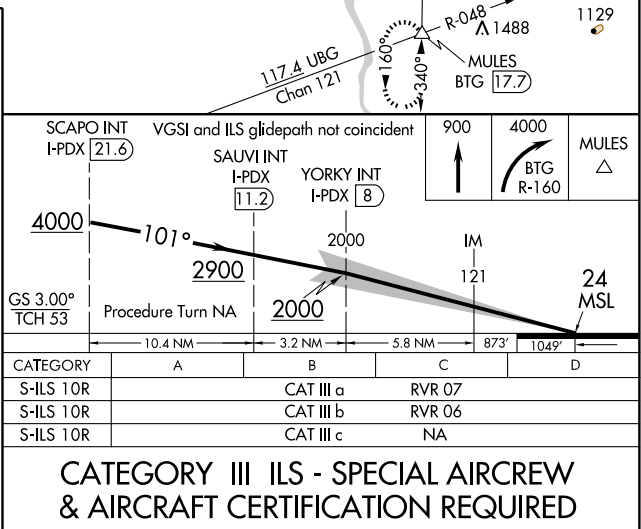
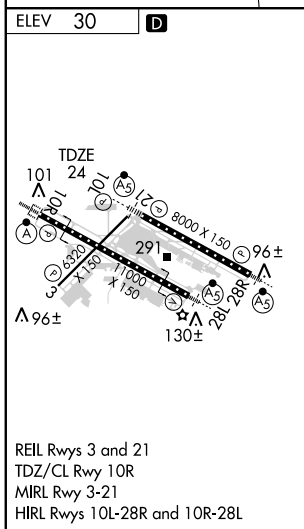
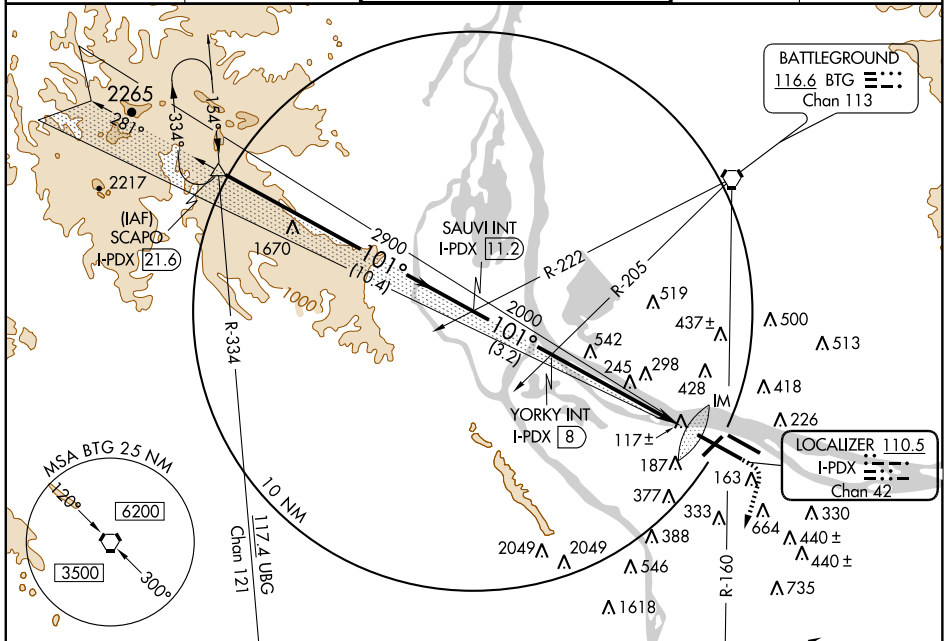


SCAPO INT I-PDX 21.6		VGSI and ILS glidepath not coincident		900 ↑	4000 	MULES △
SAUVI INT I-PDX 11.2		YORKY INT I-PDX 8		DA RA 107 IM		
4000 GS 3.00° TCH 53		2900 Procedure Turn NA		2000 2000 24 MSL		
10.4 NM		3.2 NM		5.8 NM		897'
104°						
CATEGORY	A	B	C	D		
S-ILS 10R		RA 107/12 100 DA 124				
CATEGORY II ILS - SPECIAL AIRCREW & AIRCRAFT CERTIFICATION REQUIRED						

LOC/DME I-PDX 110.5 Chan 42	APP CRS 101°	Rwy Idg TDZE Apt Elev	11000 24 30
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ILS RWY 10R (CAT III) PORTLAND INTL (PDX)

<p>ATIS 128.35 269.9</p>		<p>PORTLAND APP CON* 124.35 299.2</p>		<p>PORTLAND TOWER Rwy 10L-28R 118.7 257.8</p>		<p>Rwys 3-21, 10R-28L 123.775 251.125</p>		<p>GND CON 121.9 348.6</p>		<p>CLNC DEL 120.125 318.1</p>	
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LAVAA TWO DEPARTURE (RNAV)

SL-330 (FAA)

PORTLAND INTL (PDX)

PORTLAND, OREGON

ATIS 128.35 269.9
CLNC DEL
120.125 318.1
PORTLAND TOWER
118.7 257.8 (Rwy 10L-28R)
123.775 251.125 (Rwys 3-21, 10R-28L)
PORTLAND DEP CON ★
124.35 299.2 (280°-099°)

YAKIMA
YKMPENDLETON
PDT

N

TAKE-OFF OBSTACLE NOTES
Rwy 10L: Rising terrain and vehicles on road beginning 7' from DER, 376' left of centerline, up to 17' AGL/60' MSL.

Rwy 10R: Pole 1996' from DER, 758' right of centerline, 54' AGL/74' MSL.

Rwy 28L: Trees 1873' from DER, 836' left of centerline, 50' AGL/88 MSL.

Rwy 28R: Multiple signs, poles, and vehicle on road beginning 876' from DER, 654' right of centerline, up to 27' AGL/69' MSL.

TAKE-OFF MINIMUMS

Rwy 3, 21: NA - Air traffic.

Rwy 10R, 10L: Standard with minimum climb of 220 feet per NM to 5300 (obstacle), climb of 350 per NM to 3300 (ATC), 320 feet per NM to FL190 (ATC).

Rwy 28R, 28L: Standard with minimum climb of 240 feet per NM to 6100 (obstacle), climb of 350 feet per NM to 2500 (ATC), 300 feet per NM to FL190 (ATC).

ARUPT
250K

013° (8)

KELLY

280° (7)

PEGTY

540

279°

279°

540

099°

099°

540

RIVRR

540

084° (6)

COSUG

NOTE: RADAR required.

NOTE: DME/DME/IRU or GPS required.

NOTE: RNAV 1.

NOTE: Chart not to scale.

(NARRATIVE ON FOLLOWING PAGE)



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 10R: Climb heading 099° to 540, then left turn direct RIVRR, then via track 084° to COSUG, then via track 027° to cross OKKOR at or below 9000/4600, then via track 045° to LAVAA, thence....

TAKE-OFF RUNWAY 10L: Climb heading 099° to 540, then left turn direct RIVRR, then via track 084° to COSUG, then via track 027° to cross OKKOR at or below 9000/4600, then via track 045° to LAVAA, thence....

TAKE-OFF RUNWAY 28R: Climb heading 279° to 540, then left turn direct PEGTY, then via track 280° to cross KELYY at or below 9000/2300, then right turn via track 013° to ARUPT, then via track 073° to LAVAA, thence....

TAKE-OFF RUNWAY 28L: Climb heading 279° to 540, then right turn direct PEGTY, then via track 280° to cross KELYY at or below 9000/2300, then right turn via track 013° to ARUPT, then via track 073° to LAVAA, thence....

....via (Transition), maintain assigned altitude, expect filed altitude 10 minutes after departure.

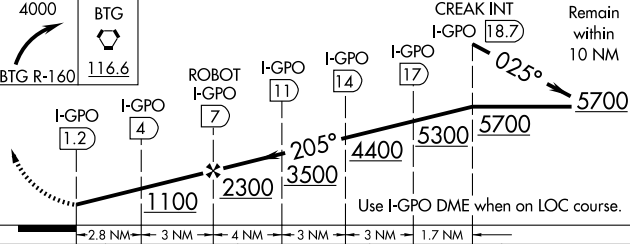
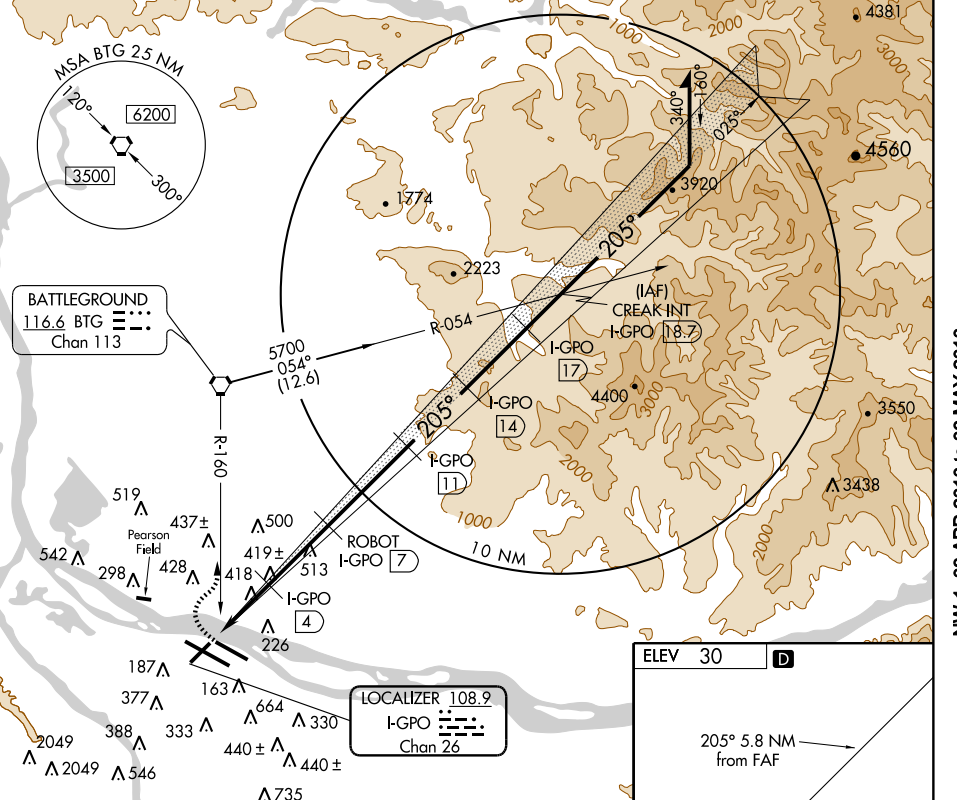
PENDLETON TRANSITION (LAVAA2.PDT)

YAKIMA TRANSITION (LAVAA2.YKM)

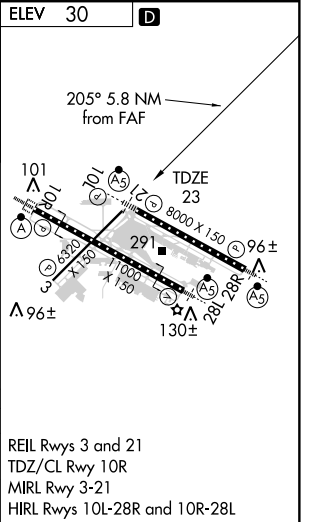
▼
▲

MISSED APPROACH: Climbing right turn to 4000
via BTG R-160 to BTG VORTAC.

ATIS 128.35 269.9	PORTLAND APP CON* 124.35 299.2	PORTLAND TOWER Rwy 10L-28R 118.7 257.8	Rwys 3-21, 10R-28L 123.775 251.125	GND CON 121.9 348.6	CLNC DEL 120.125 318.1
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CATEGORY	A	B	C	D
S-21	680-1	657 (700-1)	680-1 3/4 657 (700-1 3/4)	680-2 657 (700-2)
CIRCLING	720-1 690 (700-1)	740-1 710 (800-1)	740-2 710 (800-2)	1020-3 990 (1000-3)

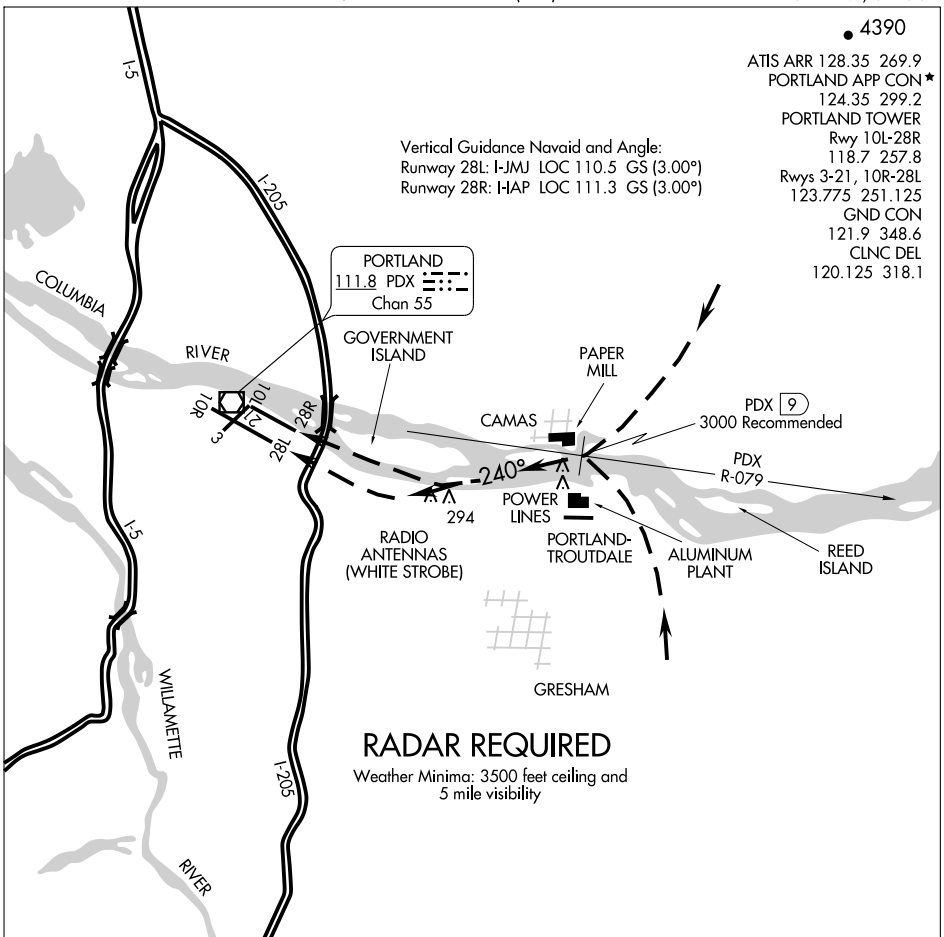


REIL Rwys 3 and 21
TDZ/CL Rwy 10R
MIRL Rwy 3-21
HIRL Rwys 10L-28R and 10R-28L

MILL VISUAL RWY 28L/R

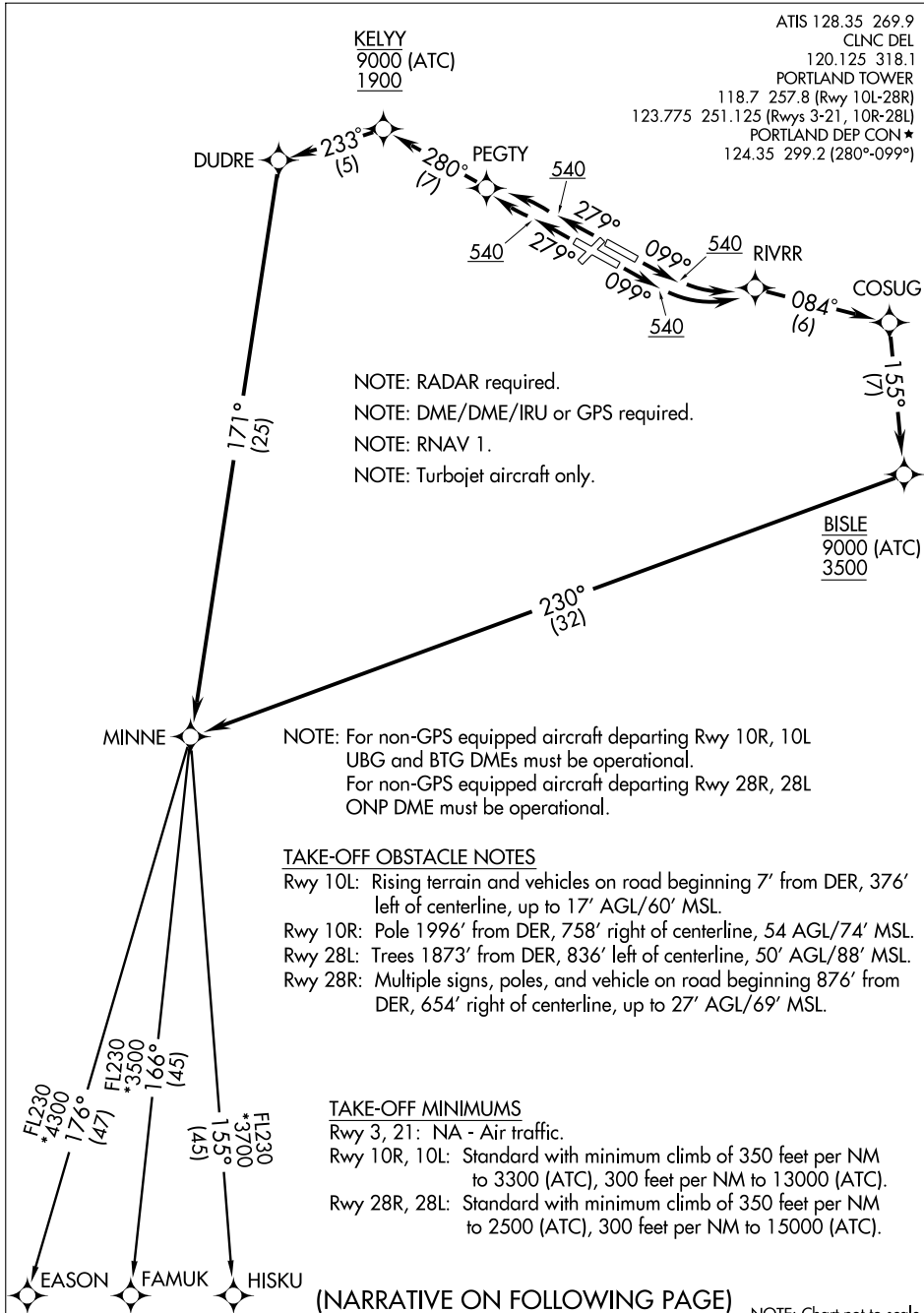
AL-330 (FAA)

PORTLAND INTL (PDX)
PORTLAND, OREGON



23

When visual approaches to Runways 28L/R are in progress, clearances to aircraft will be issued utilizing the following phraseology: "(IDENT) CLEARED FOR MILL VISUAL RUNWAY 28 LEFT/RIGHT APPROACH."





DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 10R: Climb heading 099° to 540, then left turn direct to RIVRR, then via track 084° to COSUG, then via track 155° to cross BISLE at or below 9000/3500, then via track 230° to MINNE, thence....

TAKE-OFF RUNWAY 10L: Climb heading 099° to 540, then left turn direct RIVRR, then via track 084° to COSUG, then via track 155° to cross BISLE at or below 9000/3500, then via track 230° to MINNE, thence....

TAKE-OFF RUNWAY 28R: Climb heading 279° to 540, then left turn direct PEGTY, then via track 280° to cross KELYY at or below 9000/1900, then via track 233° to DUDRE, then via track 171° to MINNE, thence....

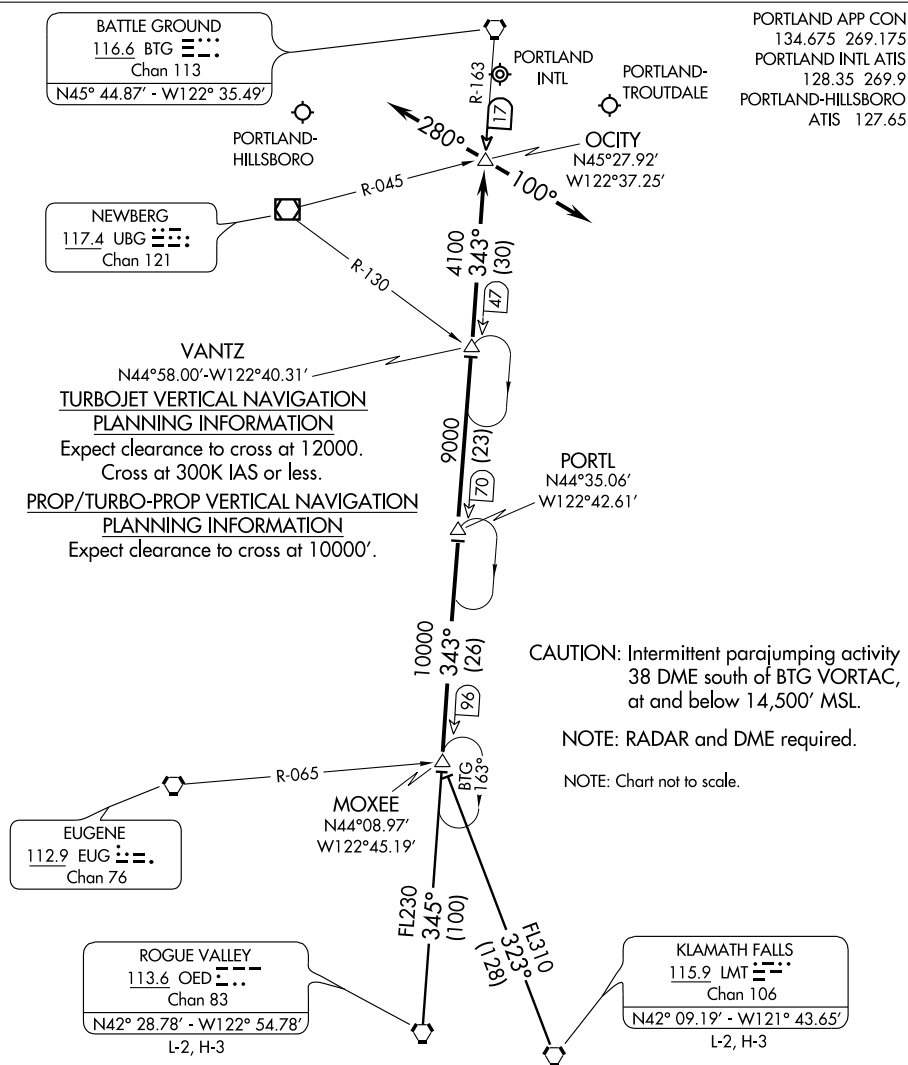
TAKE-OFF RUNWAY 28L: Climb heading 279° to 540, then right turn direct PEGTY, then via track 280° to cross KELYY at or below 9000/1900, then via track 233° to DUDRE, then via track 171° to MINNE, thence....

....via (Transition), maintain assigned altitude, expect filed altitude 10 minutes after departure.

EASON TRANSITION (MINNE2.EASON)

FAMUK TRANSITION (MINNE2.FAMUK)

HISKU TRANSITION (MINNE2.HISKU)



KLAMATH FALLS TRANSITION (LMT.MOXEE6): From over LMT VORTAC via LMT R-323 to MOXEE INT. Thence

ROGUE VALLEY TRANSITION (OED.MOXEE6): From over OED VORTAC via OED R-345 to MOXEE INT. Thence

. . . . From over MOXEE INT via BTG R-163 to OCITY INT. Thence via:

Landing East - Depart OCITY INT heading 280° for vectors to final approach course.

Landing West - Depart OCITY INT heading 100° for vectors to final approach course.

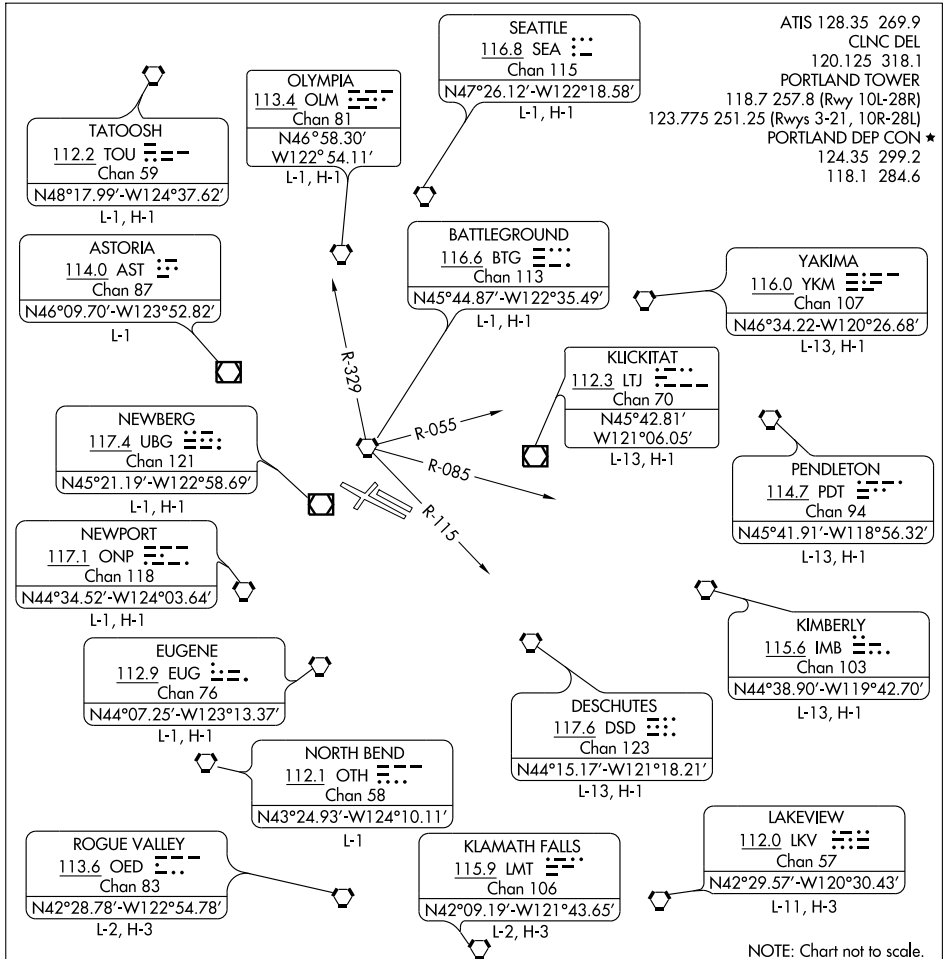
LOST COMMUNICATIONS: After OCITY INT, proceed direct BTG VORTAC.

PORTLAND SIX DEPARTURE

SL-330 (FAA)

PORTLAND INTL (PDX)

PORTLAND, OREGON



TAKE-OFF MINIMUMS:

- Rwy 3: Standard with minimum climb of 400' per NM to 2700.
- Rwy 21: Standard with minimum climb of 450' per NM to 2900.
- Rwy 10R: Standard with minimum climb of 375' per NM to 2700.
- Rwy 10L: Standard with minimum climb of 350' per NM to 2700.
- Rwy 28L: Standard with minimum climb of 375' per NM to 2900.
- Rwy 28R: Standard with minimum climb of 350' per NM to 2900.

NOTE: RADAR REQUIRED.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 3: Climb heading 025° to 600 thence....

TAKE-OFF RWY 10L: Climb heading 099° to 500 thence...

TAKE-OFF RWY 10R: Climb heading 099° to 500 thence....

TAKE-OFF RWY 28L: Climb heading 279° to 800 thence....

TAKE-OFF RWY 28R: Climb heading 279° to 800 thence....

TAKE-OFF RWY 21: Climb heading 205° to 500 thence....

....via assigned heading expect radar vectors to assigned route/fix. Maintain 3000, expect filed altitude five minutes after departures.

LOST COMMUNICATIONS: If no contact with ATC within 10 NM of airport, continue climb to assigned altitude and proceed direct BTG VORTAC. Continue climb via BTG R-329 within 10 NM to cross BTG VORTAC: BTG R-355 clockwise R-055 or R-085 clockwise R-115 at or above 5000 feet. Continue climb on course.

TAKE-OFF OBSTACLE NOTES:

Rwy 3: Signs, tower, trees, and vehicle on road beginning 468' from DER, 28' left of centerline, up to 100' AGL/449' MSL.

Poles, trees, and vehicle on road beginning 609' from DER, 7' left of centerline, up to 100' AGL/416' MSL.

Rwy 10L: Rising terrain and vehicle on road beginning 7' from DER, 376' left of centerline, up to 17' AGL/60' MSL.

Rwy 10R: Pole 1996' from DER, 758' right of centerline, 54' AGL/74' MSL.

Rwy 21: Trees beginning 1319' from DER, 155' right of centerline, up to 100' AGL/318' MSL.

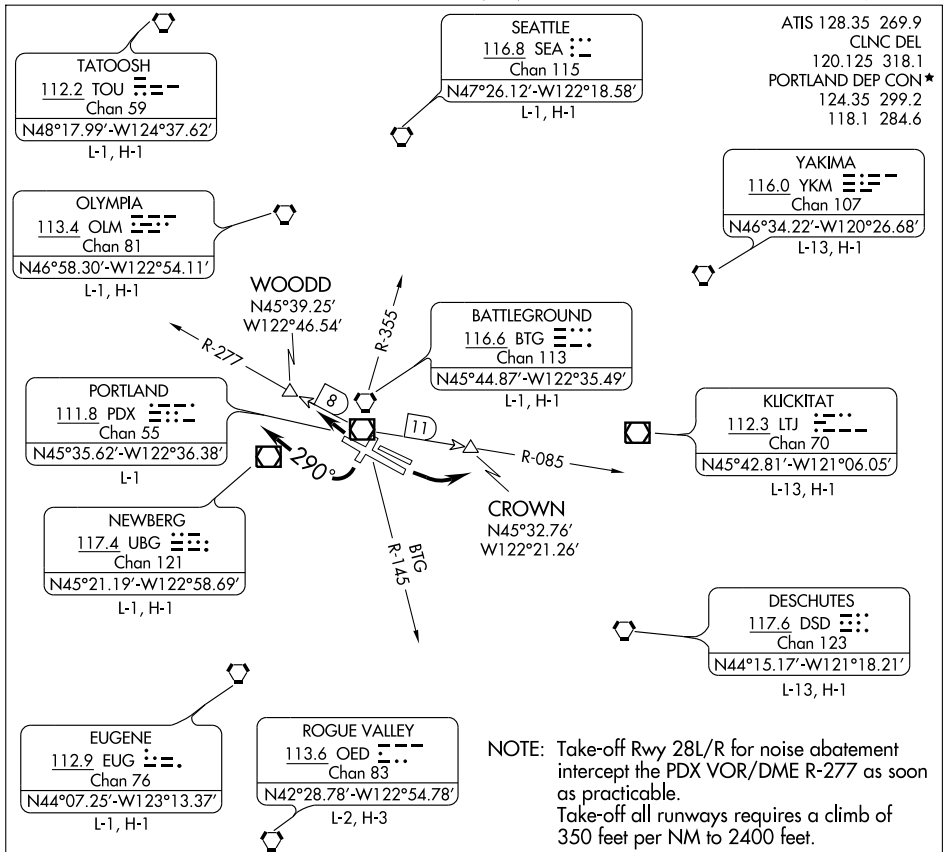
Poles and trees beginning 353' from DER, 36' left of centerline, up to 100' AGL/317' MSL.

Rwy 28L: Trees 1873' from DER, 836' left of centerline, 50' AGL/88' MSL.

Rwy 28R: Multiple signs, poles, and vehicle on road beginning 876' from DER, 654' right of centerline, up to 27' AGL/69' MSL.

RIVER SIX DEPARTURE

SL-330 (FAA)

PORTLAND INTL (PDX)
PORTLAND, OREGON

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 10L/R: Turn left, intercept and proceed via the PDX R-085 or as assigned, expect radar vectors to assigned route. Expect filed altitude/flight level 5 minutes after departure.

TAKE-OFF RUNWAY 21: Turn right fly heading 290° or as assigned, expect radar vectors on course. Expect filed altitude/flight level 5 minutes after departure.

TAKE-OFF RUNWAYS 28L/R: Intercept and proceed via the PDX R-277 or as assigned, expect radar vectors to assigned route. Expect filed altitude/flight level 5 minutes after departure.

LOST COMMUNICATIONS: If no contact with ATC within 10 NM of airport or leaving 3,000', continue climb to assigned altitude and proceed direct to BTG VORTAC, thence via (assigned route). If proceeding via BTG VORTAC R-355 CW R-145, a 340 feet per NM climb is required to 13800 feet.

ALTERNATE LOST COMMUNICATIONS: When BTG VORTAC is out of service: If no contact with ATC leaving 3,000', continue climb to assigned altitude direct UBG VOR/DME.

▼

DME/DME RNP-0.3 NA.

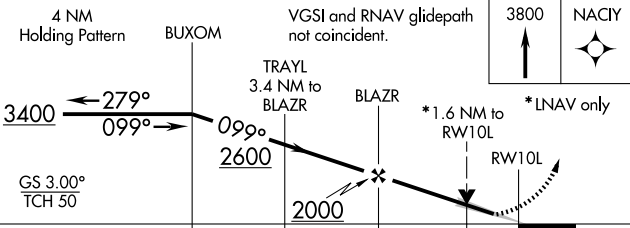
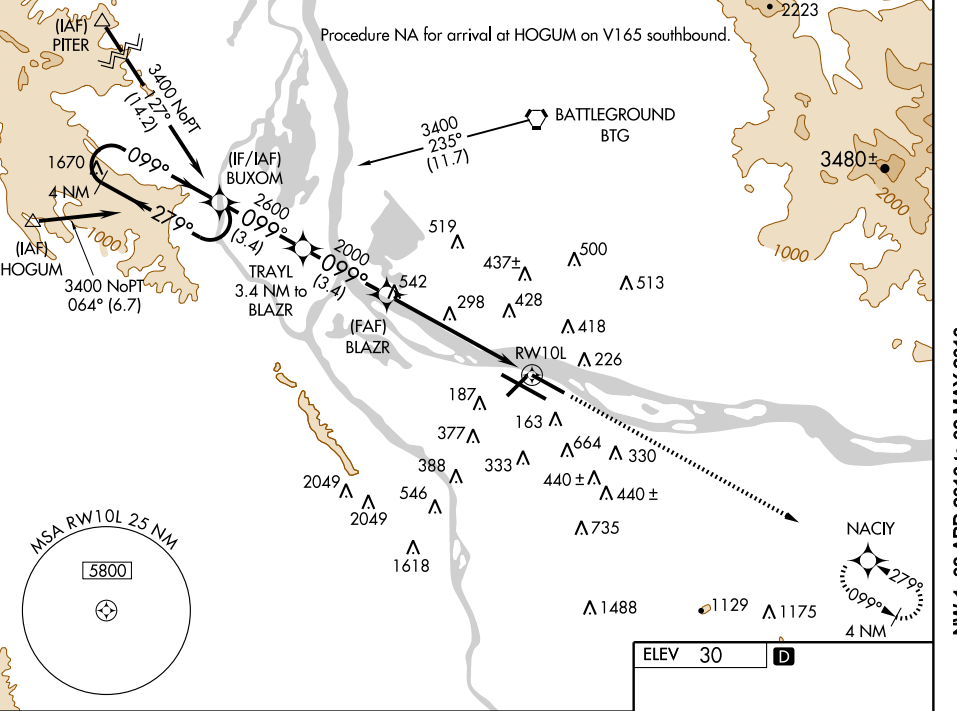
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For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -1.5°C (5°F) or above 49°C (120°F).

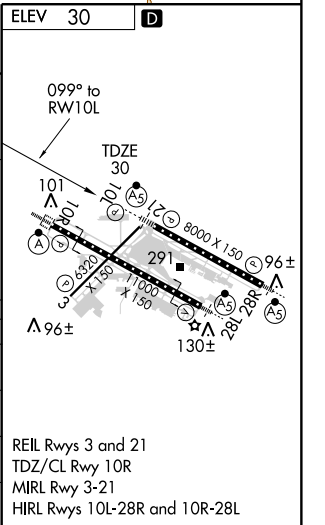
MALSR

MISSED APPROACH: Climb to 3800 direct NACIY WP and hold.

ATIS 128.35 269.9	PORTLAND APP CON* 124.35 299.2	PORTLAND TOWER Rwy 10L-28R 118.7 257.8 Rwys 3-21, 10R-28L 123.775 251.125	GND CON 121.9 348.6	CLNC DEL 120.125 318.1
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CATEGORY	A	B	C	D
LPV DA	330/24 300 (300-½)			
LNAV/VNAV DA	800-2¼ 770 (800-2¼)			800-2½ 770 (800-2½)
LNAV MDA	580/24 550 (600-½)	580/50 550 (600-1)	580/60 550 (600-1¼)	
CIRCLING	720-1 690 (700-1)	740-1 710 (800-1)	740-2 710 (800-2)	1020-3 990 (1000-3)



NW-1. 08 APR 2010 to 06 MAY 2010

WAAS CH 40004 W10A	APP CRS 099°	Rwy Idg 11000 TDZE 24 Apt Elev 30
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RNAV (GPS) RWY 10R
PORTLAND INTL (PDX)

- T** DME/DME RNP-0.3 NA. Baro-VNAV NA below -16°C (4F).
A Inoperative table does not apply to LNAV/VNAV all Cats.
 For inoperative ALSF-2 increase LPV visibility to RVR 6000.

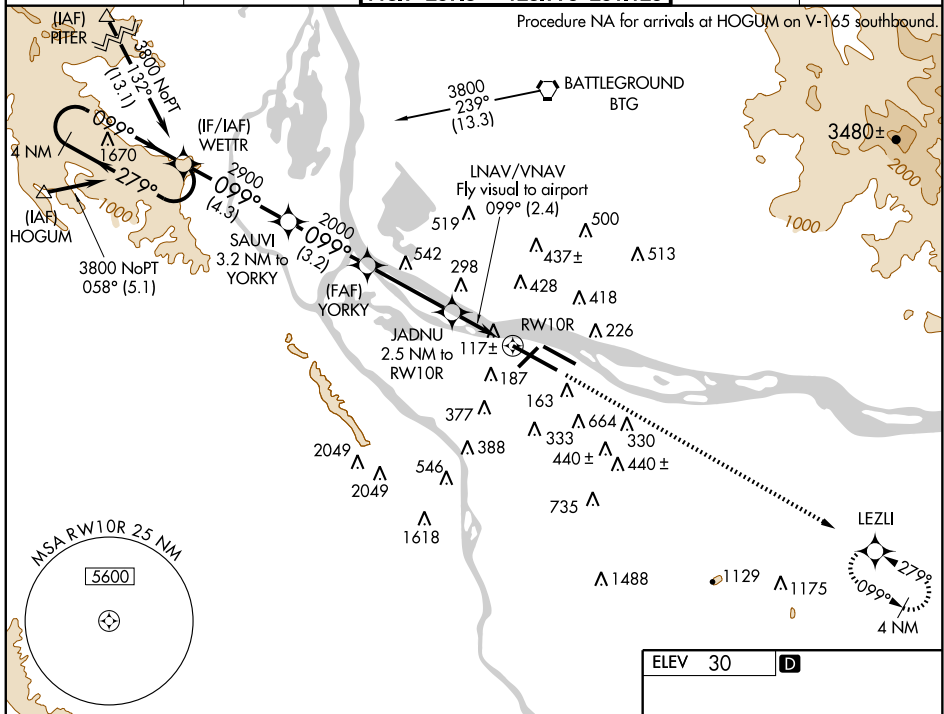
ALSF-2



MISSED APPROACH: Climb to 3500 direct LEZLI and hold.

ATIS 128.35 269.9	PORTLAND APP CON * 124.35 299.2	PORTLAND TOWER Rwy 10L-28R Rwys 3-21, 10R-28L 118.7 257.8 123.775 251.125		GND CON 121.9 348.6	CLNC DEL 120.125 318.1
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Procedure NA for arrivals at HOGUM on V-165 southbound



NW-1. 08 APR 2010 to 06 MAY 2010

4 NM Holding Pattern

WETTR

SAUVI 3.2 NM to YORKY

YORKY

JADNU 2.5 NM to RW10R

3500

LEZLI

3800

279°

099°

099°

2900

GS 3.00° TCH 53

2000

860

1.5 NM to RW10R

RW10R

1.5 NM to RW10R

LNNAV/ VNAV Fly Visual 099° 2.4 NM

*LNNAV only

VGS1 and RNAV glidepath not coincident.

4.3 NM

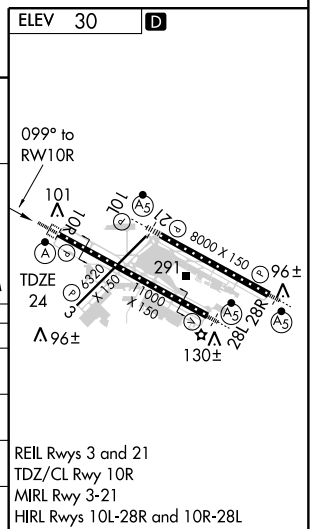
3.2 NM

3.4 NM

1 NM

1.5 NM

CATEGORY	A	B	C	D
LPV DA	390/40 366 (400-34)			
LNAV/VNAV DA	660-2 636 (700-2)			
LNAV MDA	540/24 516 (600-½)	540/50 516 (600-1)	540/60 516 (600-1¼)	
CIRCLING	720-5 690 (700-5)	740-5 710 (800-5)	1020-5 990 (1000-5)	

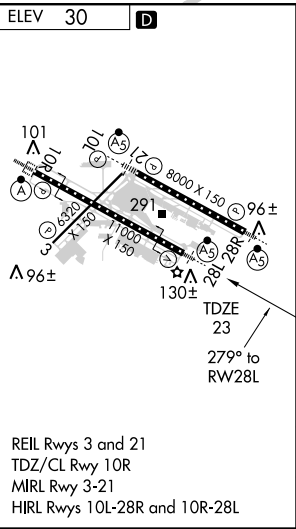
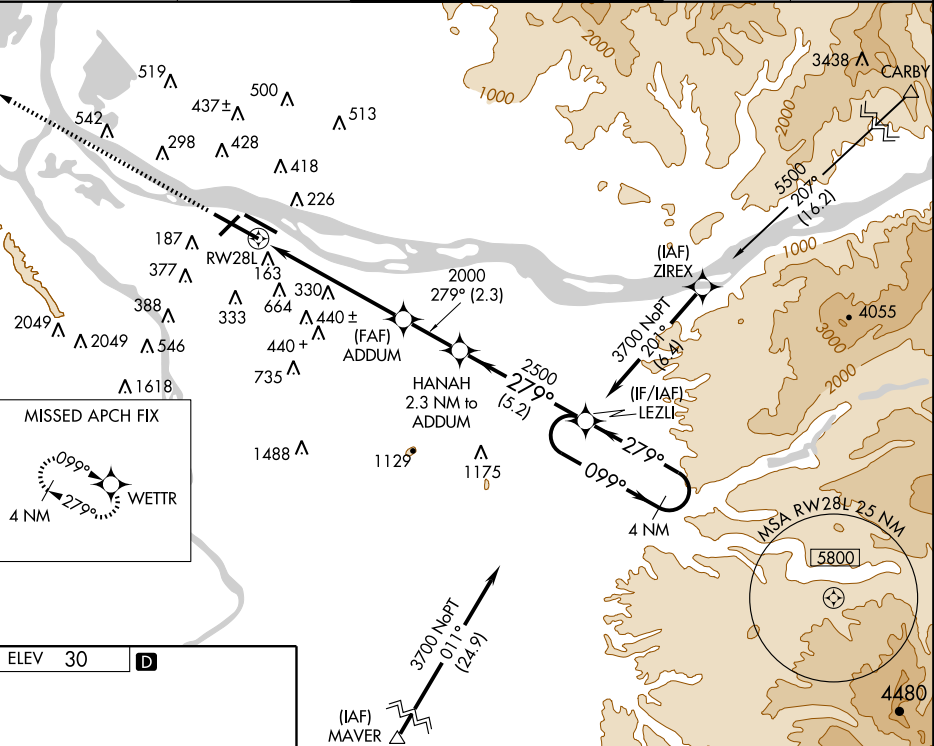




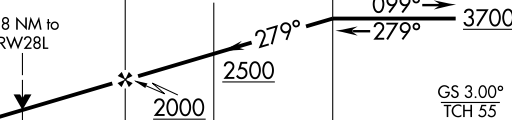
WAAS CH 56205 W28B	APP CRS 279°	Rwy Idg TDZE Apt Elev	11000 23 30
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RNAV (GPS) RWY 28L
PORTLAND INTL (PDX)

	DME/DME RNP-0.3 NA.		MISSED APPROACH: Climb to 3800 direct WETTR and hold.
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ATIS 128.35 269.9	PORTLAND APP CON* 124.35 299.2	PORTLAND TOWER Rwy 10L-28R 118.7 257.8 Rwys 3-21, 10R-28L 123.775 251.125	GND CON 121.9 348.6	CLNC DEL 120.125 318.1
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3800 ↑ WETTR 		VGSi and RNAV glidepath not coincident.		4 NM Holding Pattern	
*LNAV only		ADDUM	HANAH 2.3 NM to ADDUM	LEZLI	
*1.8 NM to RW28L 					
1.8		4.1 NM	2.3 NM	5.2 NM	GS 3.00° TCH 55
CATEGORY		A	B	C	D
LPV DA	340/24 317 (400-½)				
LNAV MDA	660/24 637 (700-½)		660/60 637 (700-¼)		660-½ 637 (700-½)
CIRCLING	720-½ 690 (700-½)	740-½ 710 (800-½)	740-2 710 (800-2)	1020-3 990 (1000-3)	

WAAS CH 60905 W28A	APP CRS 279°	Rwy Idg 8000 TDZE 30 Apt Elev 30
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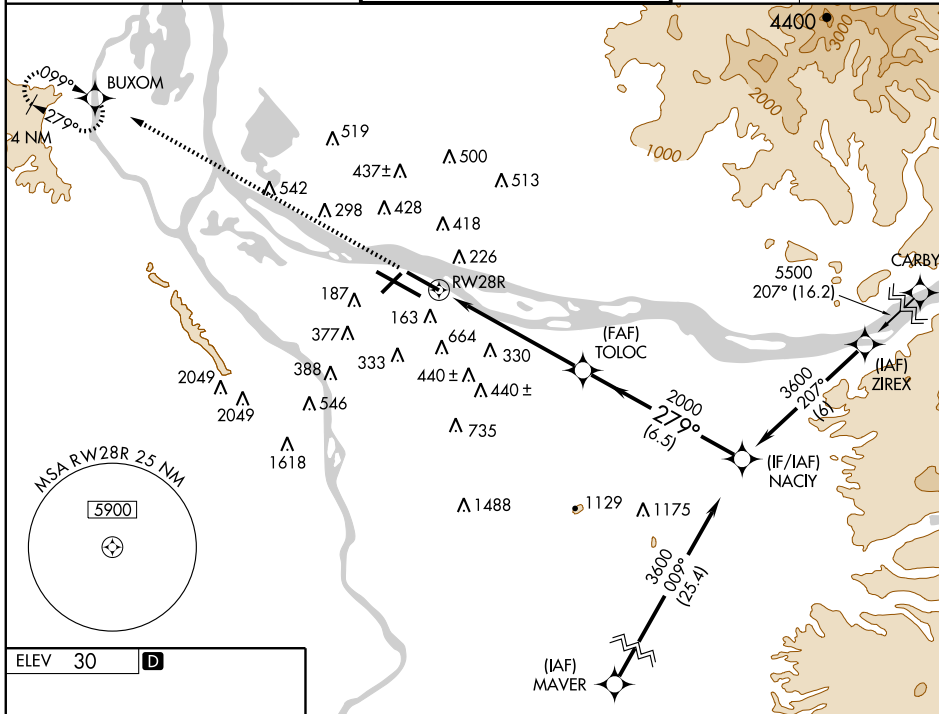
RNAV (GPS) RWY 28R
PORTLAND INTL (PDX)

T DME/DME RNP-0.3 NA. Baro-VNAV NA below -16°C (4°F).
A For inoperative MALSR increase LNAV Cat A and B visibility to RVR 5000.
 For inoperative MALSR increase LPV visibility to RVR 5000 all Cats.

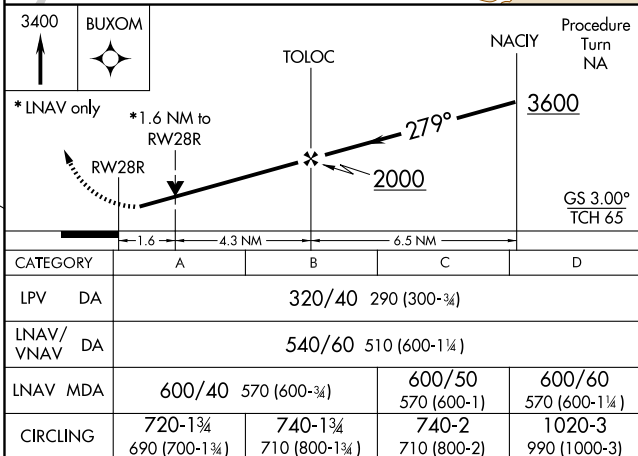
MALSR

MISSED APPROACH: Climb to 3400 direct BUXOM and hold.

ATIS	PORTLAND APP CON *	PORTLAND TOWER		GND CON	CLNC DEL
128.35 269.9	124.35 299.2	Rwy 10L-28R	Rwys 3-21, 10R-28L	121.9 348.6	120.125 318.1
		118.7 257.8	123.775 251.125		



101
A5
101
A5
291
A5
130±
A5
8000 X 150
11000 X 150
TDZE 30
96±
279° to RW28R



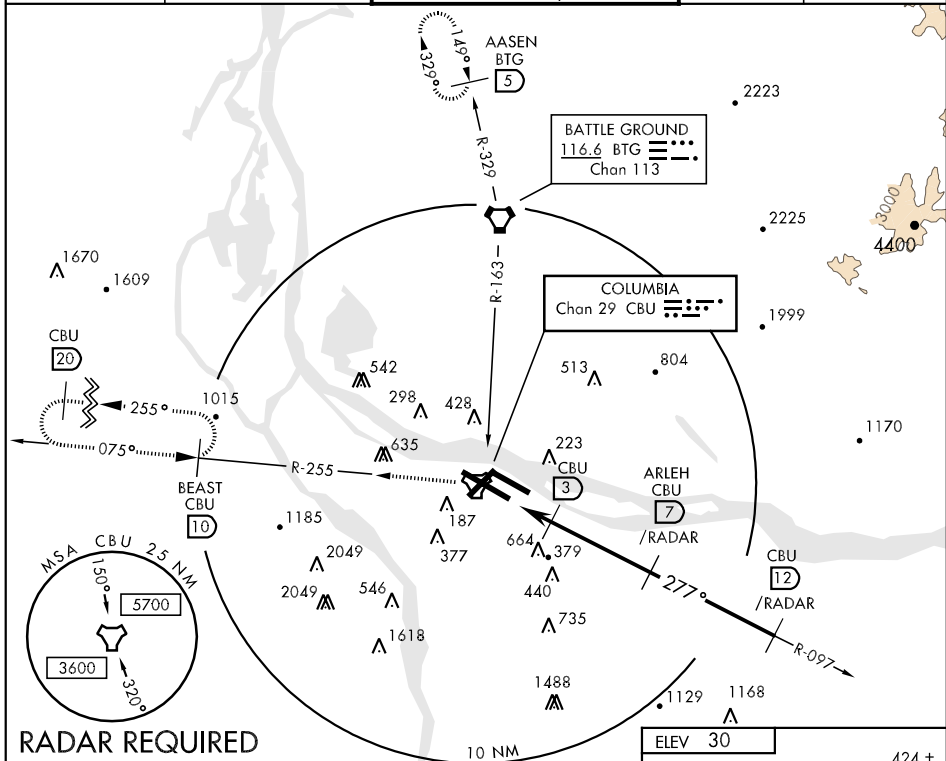
TACAN CBU Chan 29	APCH CRS 277°	Rwy Idg 11,000 TDZE 23 Arpt Elev 30
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AL-330 [USAF]

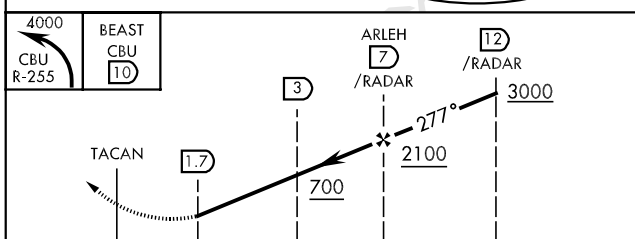
PORTLAND INTL (KPDY)

						MISSED APPROACH: Climbing left turn to 4000 via CBU R-255 to BEAST INT/CBU 10 DME and hold, or when directed by ATC climb to 4000 via BTG R-163 to BTG VORTAC then via BTG R-329 to AASEN INT and hold.		
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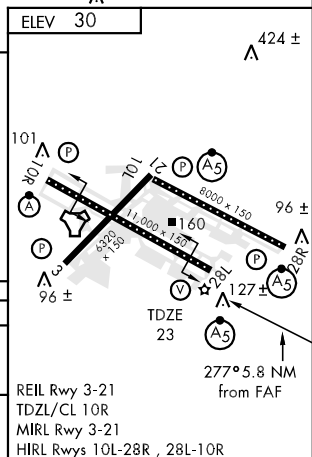
ARR 128.35 DEP 120.625 269.9	ATIS 120.25 239.25	PORTLAND APP CON 100°279° 118.1 284.6 280°099° 124.35 299.2	PORTLAND TOWER 118.7 257.8 Rwy 10L-28R 123.775 251.125 Rwy 3-21, 10R-28L	GND CON 121.9 348.6	CLNC DEL 120.125 318.1
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RADAR REQUIRED



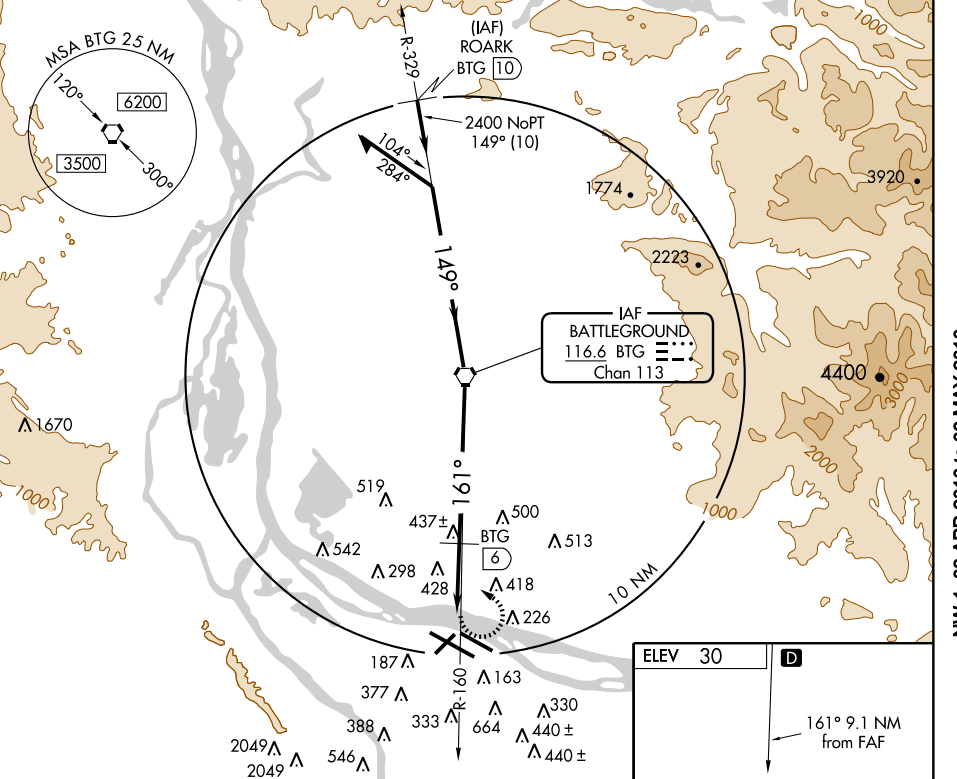
CATEGORY	A	B	C	D	E
S-28L	600/50 577 (600-1)		600-1½ 577 (600-½)	600-1¾ 577 (600-1¾)	600-2 577 (600-2)
CIRCLING	720-1 690 (700-1)		740-2 710 (800-2)	980-3 950 (1000-3)	1060-3 1030 (1100-3)



▼
▲

MISSED APPROACH: Climbing left turn to 4000
via BTG R-160 to BTG VORTAC.

ATIS 128.35 269.9	PORTLAND APP CON ★ 124.35 299.2	PORTLAND TOWER Rwy 10L-28R 118.7 257.8 Rwys 3-21, 10R-28L 123.775 251.125	GND CON 121.9 348.6	CLNC DEL 120.125 318.1
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Remain within 10 NM				
VORTAC				
4100 329° 149° 2400 161° 880				
BTG 6 4000 BTG R-160 BTG 9.1				
6 NM 3.1 NM				
CATEGORY	A	B	C	D
CIRCLING	880-1 850 (900-1)	880-1¼ 850 (900-1¼)	880-2½ 850 (900-2½)	1020-3 990 (1000-3)
DME MINIMA				
CIRCLING	740-1 710 (800-1)	740-2 710 (800-2)	1020-3 990 (1000-3)	

ELEV 30 D

161° 9.1 NM from FAF

REIL Rwys 3 and 21
TDZ/CL Rwy 10R
MIRL Rwy 3-21
HIRL Rwys 10L-28R and 10R-28L

FAF to MAP 9.1 NM

Knots	60	90	120	150	180
Min:Sec	9:06	6:04	4:33	3:38	3:02

VOR/DME PDX <u>111.8</u> Chan 55	APP CRS 215°	Rwy Idg 6320 TDZE 27 Apt Elev 30
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VOR/DME RWY 21
PORTLAND INTL (PDX)

T	Visibility reduction by helicopters NA.
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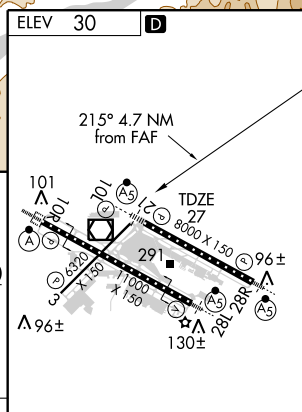
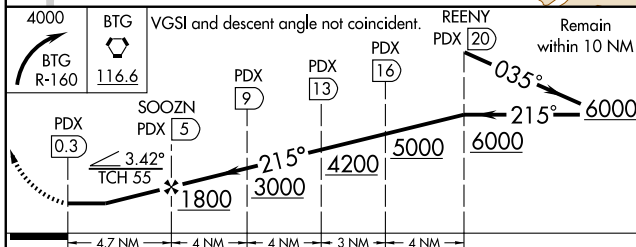
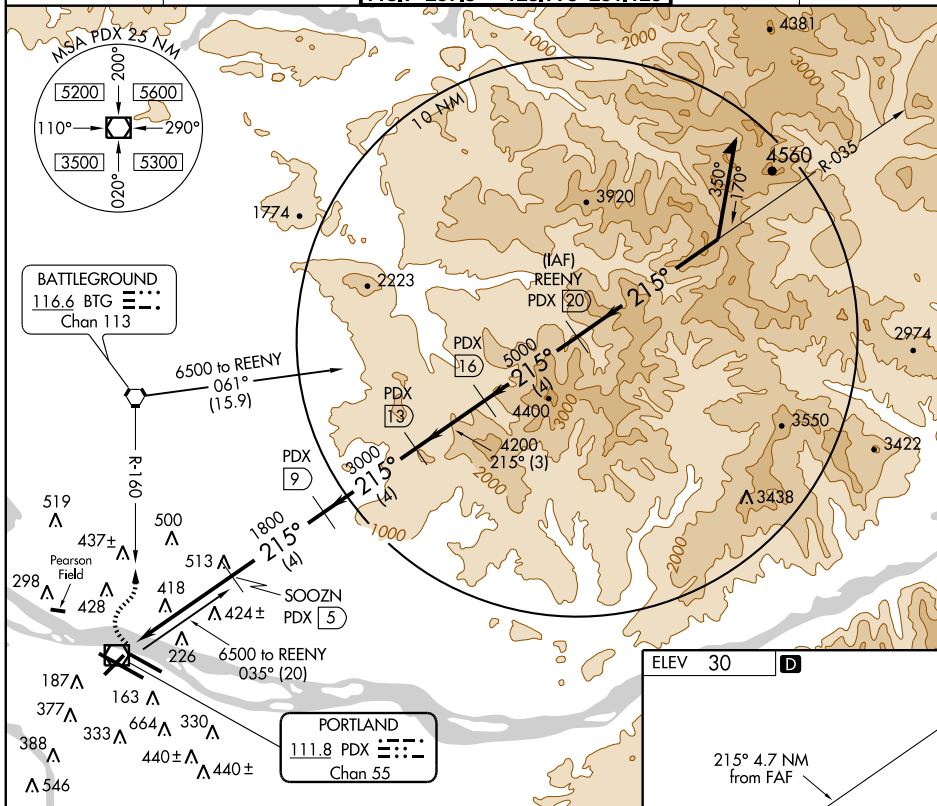
MISSED APPROACH: Climbing right turn to 4000
via BTG R-160 to BTG VORTAC.

ATIS
128.35 269.9

PORTLAND APP CON ★
124.35 299.2

PORTLAND TOWER			
Rwy 10L-28R		Rwys 3-21, 10R-28L	
118.7	257.8	123.775	251.125

GND CON
121.9 348.6

CLNC DEL
120.125 318.1

CATEGORY	A	B	C	D
S-21	720-1 693 (700-1)		720-2 693 (700-2)	720-2¼ 693 (700-2¼)
CIRCLING	720-1 690 (700-1)	740-1 710 (800-1)	740-2 710 (800-2)	1020-3 990 (1000-3)

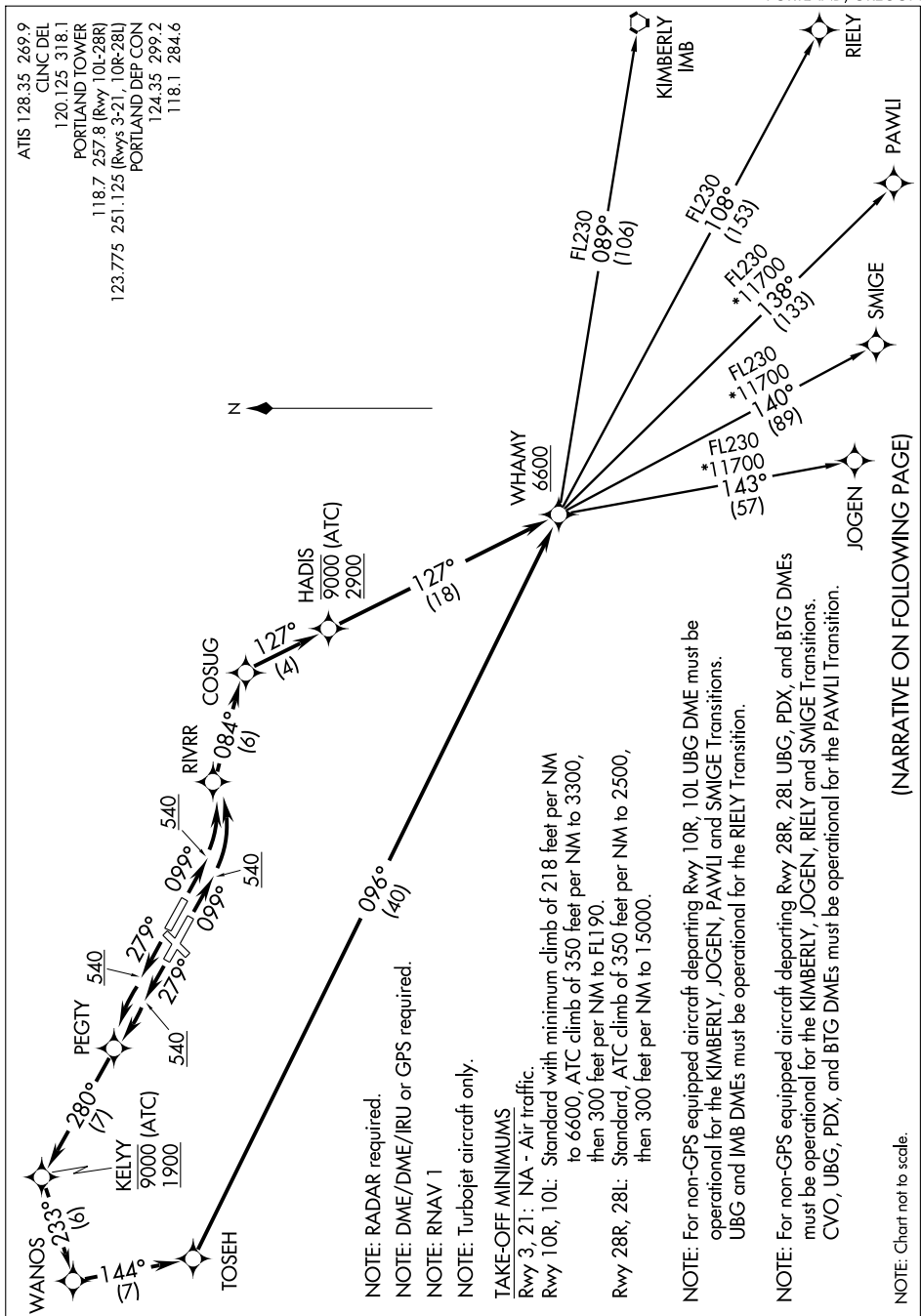
REIL Rwy 3 and 21
TDZ/CL Rwy 10R
MIRL Rwy 3-21
HIRL Rwy 10L-28R and 10R-28L

WHAMY ONE DEPARTURE (RNAV)

SL-330 (FAA)

PORTLAND INTL (PDX)

PORTLAND, OREGON





DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 10R: Climb heading 099° to 540 feet, then left turn direct RIVRR, and via 084° track to COSUG, and via 127° track to cross HADIS at or below 9000 (ATC)/2900, then via 127° track to WHAMY, cross WHAMY at or above 6600, thence....

TAKE-OFF RUNWAY 10L: Climb heading 099° to 540 feet, then left turn direct RIVRR, and via 084° track to COSUG, and via 127° track to cross HADIS at or below 9000 (ATC)/2900, then via 127° track to WHAMY, cross WHAMY at or above 6600, thence....

TAKE-OFF RUNWAY 28R: Climb heading 279° to 540 feet, then left turn direct PEGTY, and via 280° track to cross KELYY at or below 9000 (ATC)/1900, then via track 233° to WANOS, and via 144° track to TOSEH, and via 096° track to WHAMY, cross WHAMY at or above 6600, thence....

TAKE-OFF RUNWAY 28L: Climb heading 279° to 540 feet, then right turn direct PEGTY, and via 280° track to cross KELYY at or below 9000 (ATC)/1900, then via track 233° to WANOS, and via 144° track to TOSEH, and via 096° track to WHAMY, cross WHAMY at or above 6600, thence....

....via (Transition), maintain assigned altitude, expect filed altitude 10 minutes after departure.

JOGEN TRANSITION (WHAMY1.JOGEN)

KIMBERLY TRANSITION (WHAMY1.IMB)

PAWLI TRANSITION (WHAMY1.PAWLI)

RIELY TRANSITION (WHAMY1.RIELY)

SMIGE TRANSITION (WHAMY1.SMIGE)

TAKE-OFF OBSTACLE NOTES

Rwy 10L: Rising terrain and vehicle on road beginning 7' from DER, 376' left of centerline, up to 17' AGL/60' MSL.

Rwy 10R: Pole 1996' from DER, 758' right of centerline, 54' AGL/74' MSL

Rwy 28L: Trees 1873' from DER, 836' left of centerline, 50' AGL/88' MSL.

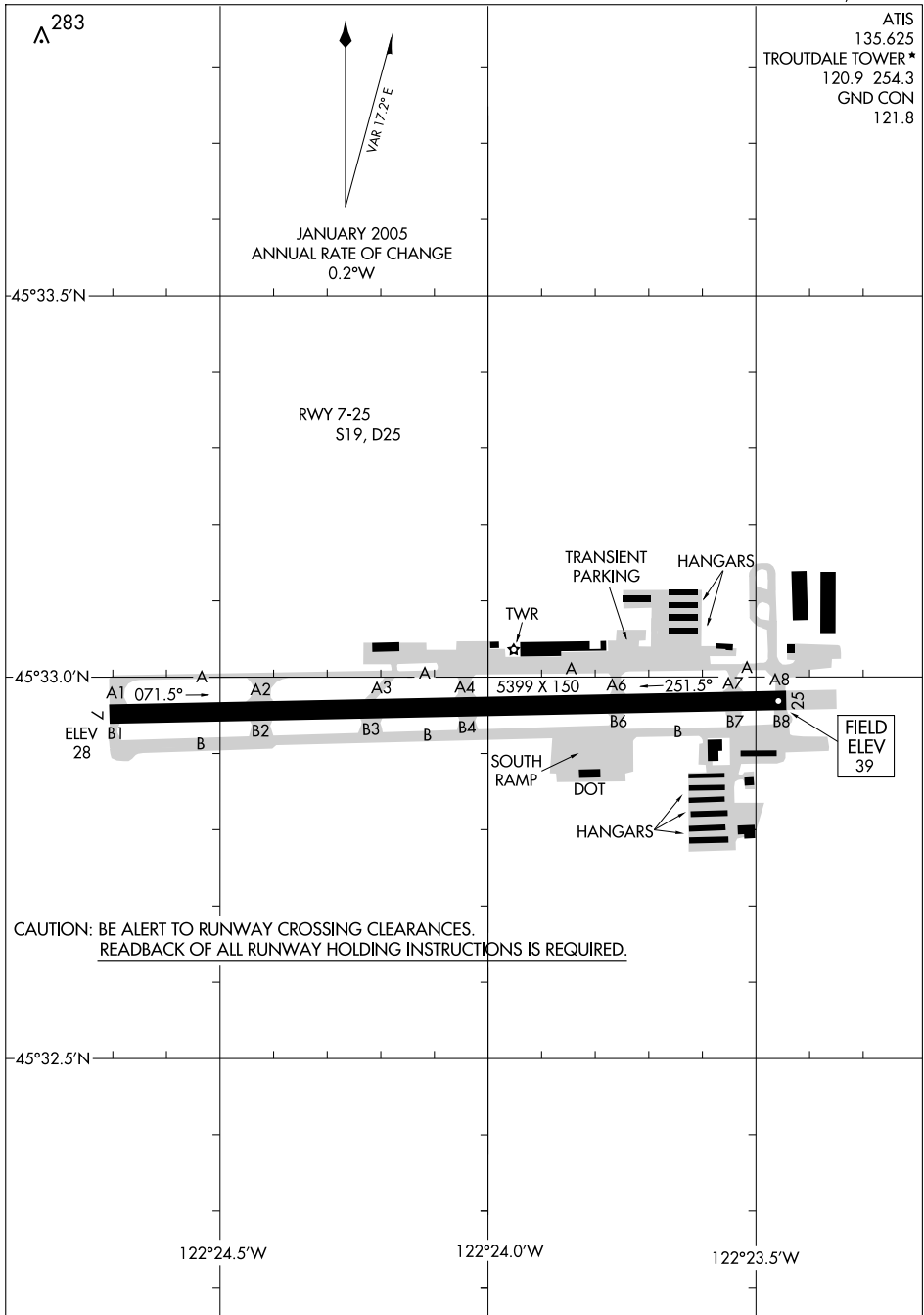
Rwy 28R: Multiple signs, poles, and vehicle on road beginning 876' from DER, 654' right of centerline, up to 27' AGL/69' MSL.

AIRPORT DIAGRAM

AL-649 (FAA)

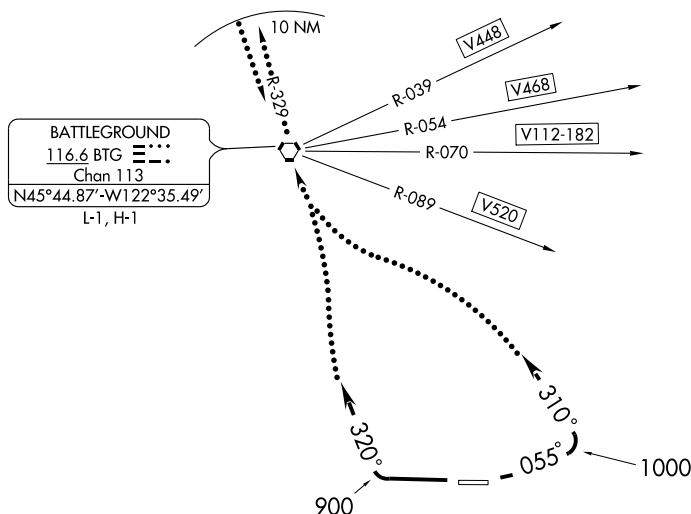
PORTLAND-TROUTDALE (TTD)

PORTLAND, OREGON



NW-1, 08 APR 2010 to 06 MAY 2010

CTAF 120.9



NOTE: Rwy 7 requires a minimum climb gradient of 420' per NM to 4000'.

Rwy 25 requires a minimum climb of 310' per NM to 2000'.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 7: Climb via heading 055° to 1000', then turn left to 310° or as assigned.

TAKE-OFF RUNWAY 25: Climb runway heading to 900', then turn right to 320° or as assigned.

LOST COMMUNICATIONS: Proceed direct to BTG VORTAC. Continue climb on the BTG R-329 within 10 NM to cross BTG VORTAC at or above: NE-bound V448, 9400'; NE-bound V468, 4500'; E-bound V112, V182, V520, 4700'; for non airways BTG R-355 CW BTG R-120, 8800'; all others, 2500'.

ALTERNATE LOST COMMUNICATIONS PROCEDURE: When BTG VORTAC is out of service: if no contact with ATC leaving 3000', continue climb to assigned altitude and proceed direct to UBG VOR/DME, thence via assigned route.

HELNS FOUR ARRIVAL

ST-330 (FAA)

PORTLAND, OREGON

PORTLAND APP CON

124.35 299.2

PORTLAND INTL ATIS

128.35 269.9

PORTLAND-HILLSBORO ATIS

127.65

SEATTLE

116.8 SEA

Chan 115

N47°26.12'-W122°18.58'

L-1, H-1

10000
+9700
161°
(71)HELNS
N46°15.42'
W122°18.58'10000
180°
(111)7000
(22)

BATTLE GROUND

116.6 BTG

Chan 113

N45°44.87'-W122°35.49'

KRATR

N46° 05.39' - W122° 24.17'

NOTE: Maintain the last assigned altitude. Upon receipt of "Descend via the HELNS4": . . .

PROP/TURBOPROP: Cross at and maintain 10,000'.

TURBOJET: Cross at and maintain 12,000' at 300 KIAS or less.

PORTLAND
INTLPORTLAND-
HILLSBORO

PORTLAND-TROUTDALE

AURORA
STATE

NOTE: Chart not to scale.

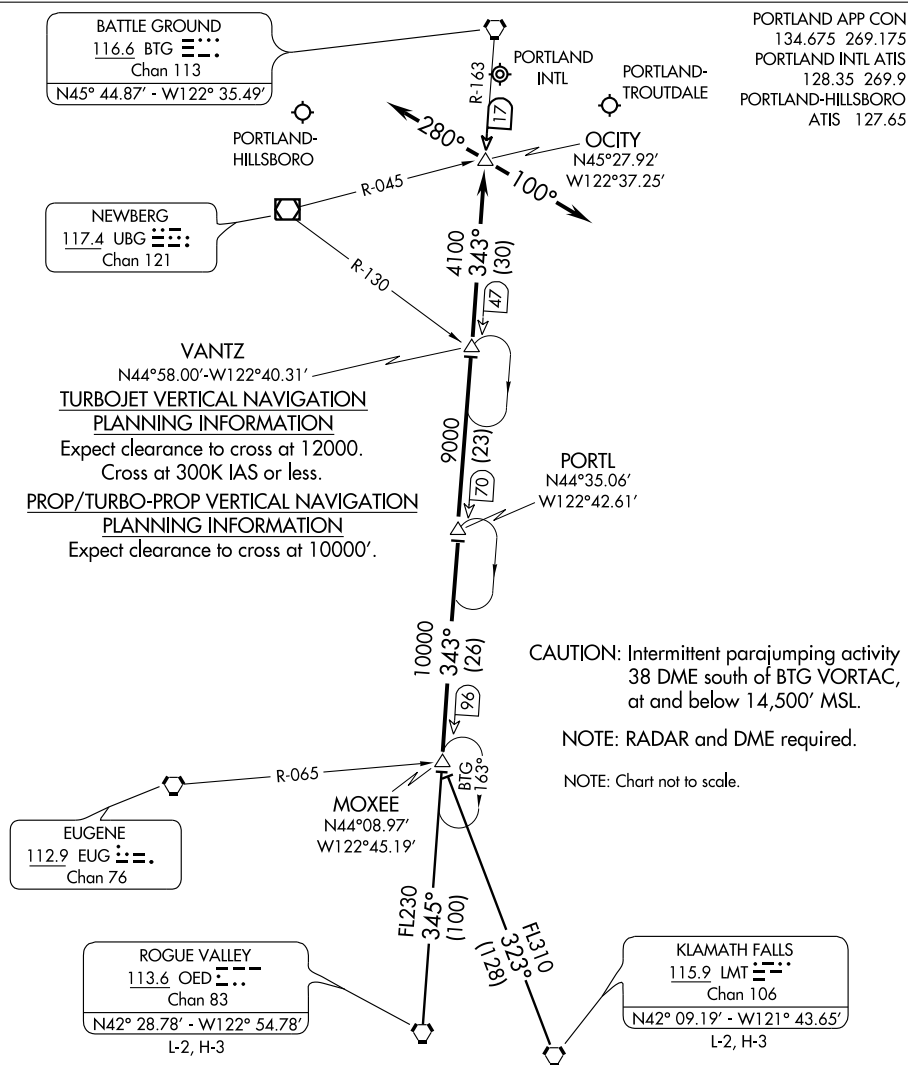
NOTE: DME and RADAR required.

SEATTLE TRANSITION (SEA.HELNS4): From over SEA VORTAC via SEA R-161 to HELNS DME FIX. Thence....

.... From over HELNS DME FIX via BTG R-360 to BTG VORTAC. Thence....

LANDING EAST: Depart BTG VORTAC heading 280° for vectors to final approach course.

LANDING WEST: Depart BTG VORTAC heading 110° for vectors to final approach course.



KLAMATH FALLS TRANSITION (LMT.MOXEE6): From over LMT VORTAC via LMT R-323 to MOXEE INT. Thence

ROGUE VALLEY TRANSITION (OED.MOXEE6): From over OED VORTAC via OED R-345 to MOXEE INT. Thence

. . . . From over MOXEE INT via BTG R-163 to OCITY INT. Thence via:

Landing East - Depart OCITY INT heading 280° for vectors to final approach course.

Landing West - Depart OCITY INT heading 100° for vectors to final approach course.

LOST COMMUNICATIONS: After OCITY INT, proceed direct BTG VORTAC.

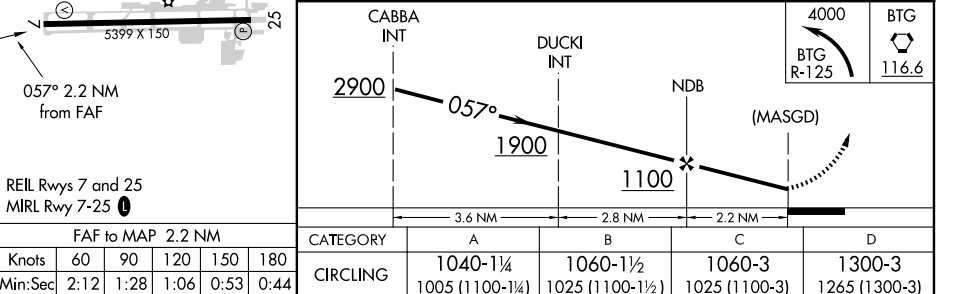
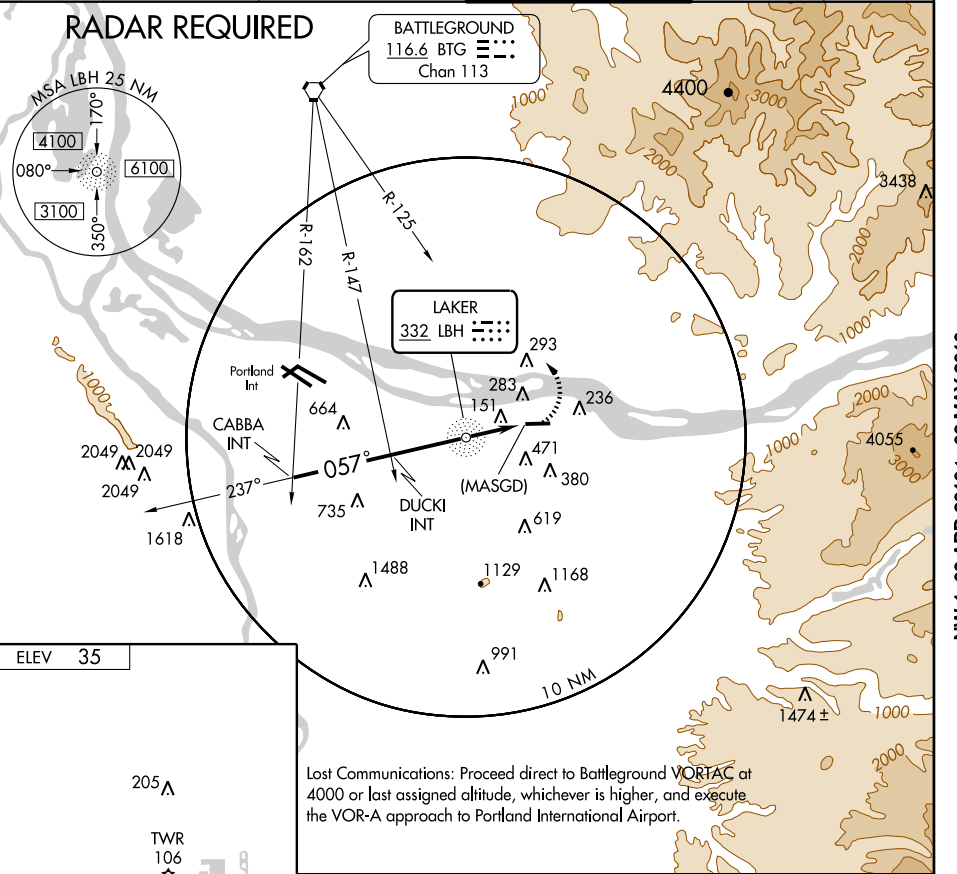
▽

▲

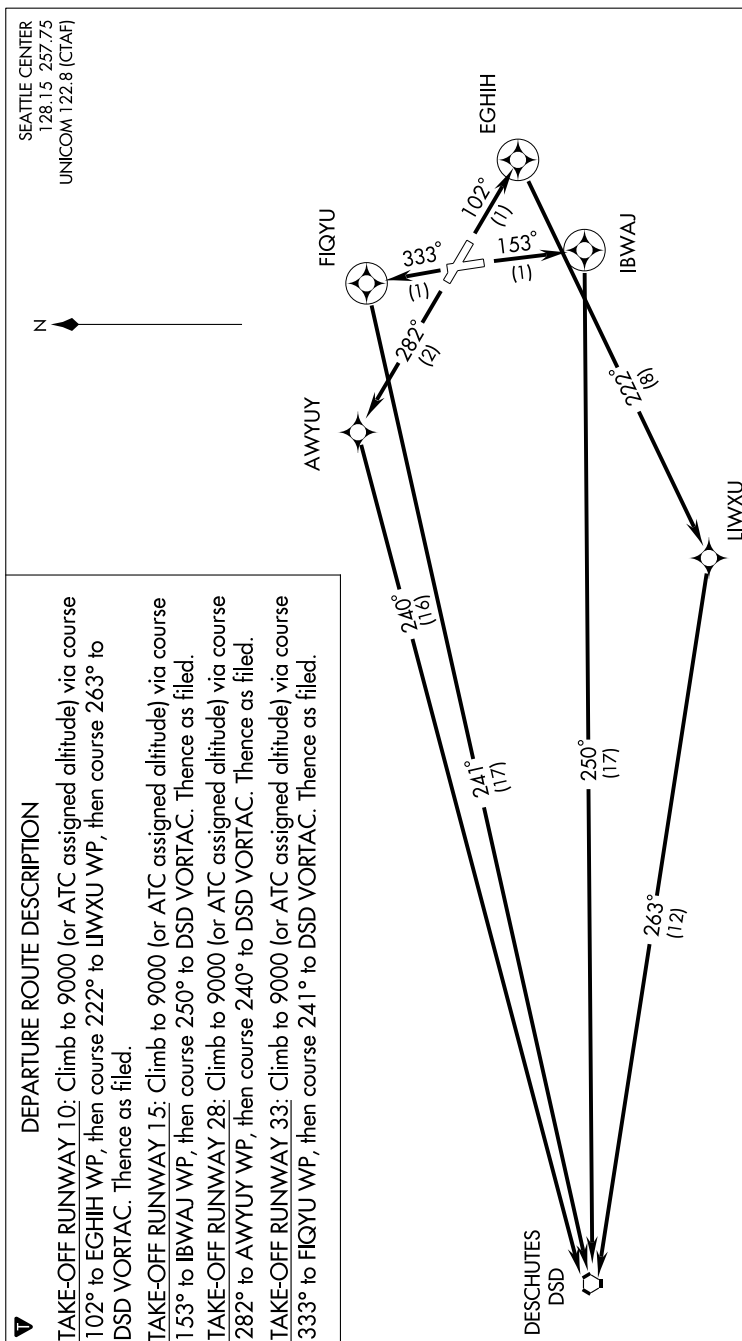
If local altimeter setting not received procedure not authorized.

MISSED APPROACH: Climbing left turn to 4000 via BTG R-125 to BTG VORTAC.

ATIS 135.625	PORTLAND APP CON 124.35 299.2	TROUTDALE TOWER ★ 120.9 (CTAF) 254.3	GND CON 121.8	UNICOM 122.95
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DESCHUTES ONE DEPARTURE (RNAV)



NOTE: Standard with minimum climb gradient of 400' per NM to 9000',
except V25 North requires minimum climb gradient of 400' per NM to 7000'.

NOTE: 1. GPS Required.

2. RNAV 1

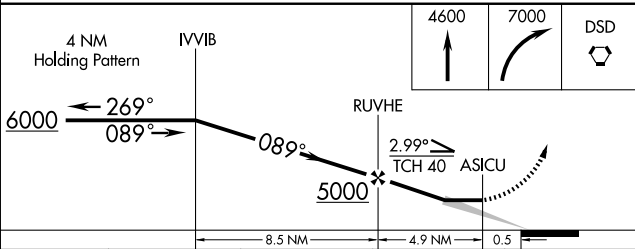
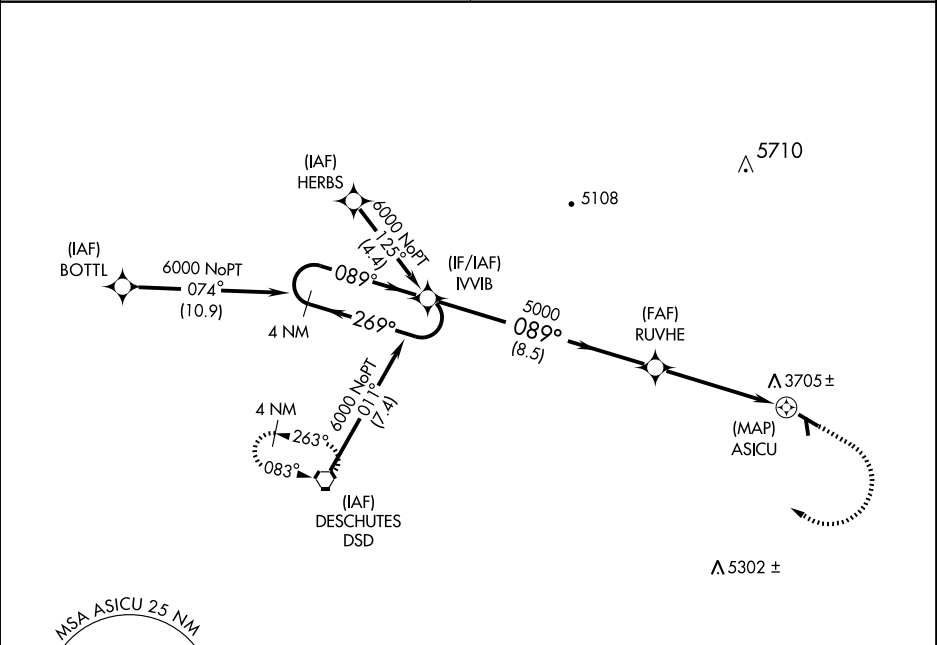
NOTE: Chart not to scale.

APP CRS 089°	Rwy Idg TDZE Apt Elev 5000 3250 3250
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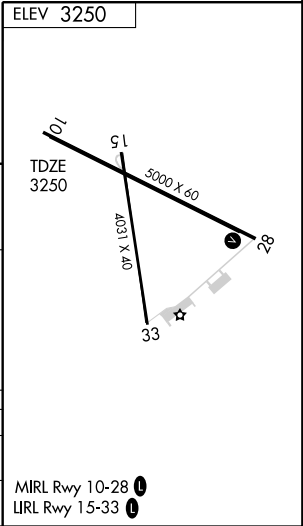
RNAV (GPS) RWY 10
PRINEVILLE (S39)

▼ GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.	MISSED APPROACH: Climb to 4600 then climbing right turn to 7000 direct DSD VORTAC and hold.
▲ NA Use Roberts Field altimeter setting.	

SEATTLE CENTER 128.15 257.75	UNICOM 122.8 (CTAF) 0
--	--



CATEGORY	A	B	C	D
LNNAV MDA	4020-1 770 (800-1)	4020-1¼ 770 (800-1¼)	4020-2¼ 770 (800-2¼)	4020-2½ 770 (800-2½)
CIRCLING	4060-1 810 (900-1)	4100-1¼ 850 (900-1¼)	4100-2½ 850 (900-2½)	4100-2¾ 850 (900-2¾)



MIRL Rwy 10-28 **0**
LURL Rwy 15-33 **0**

▼

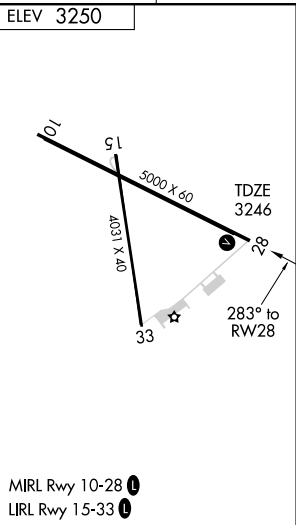
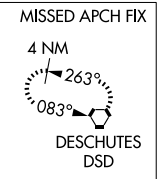
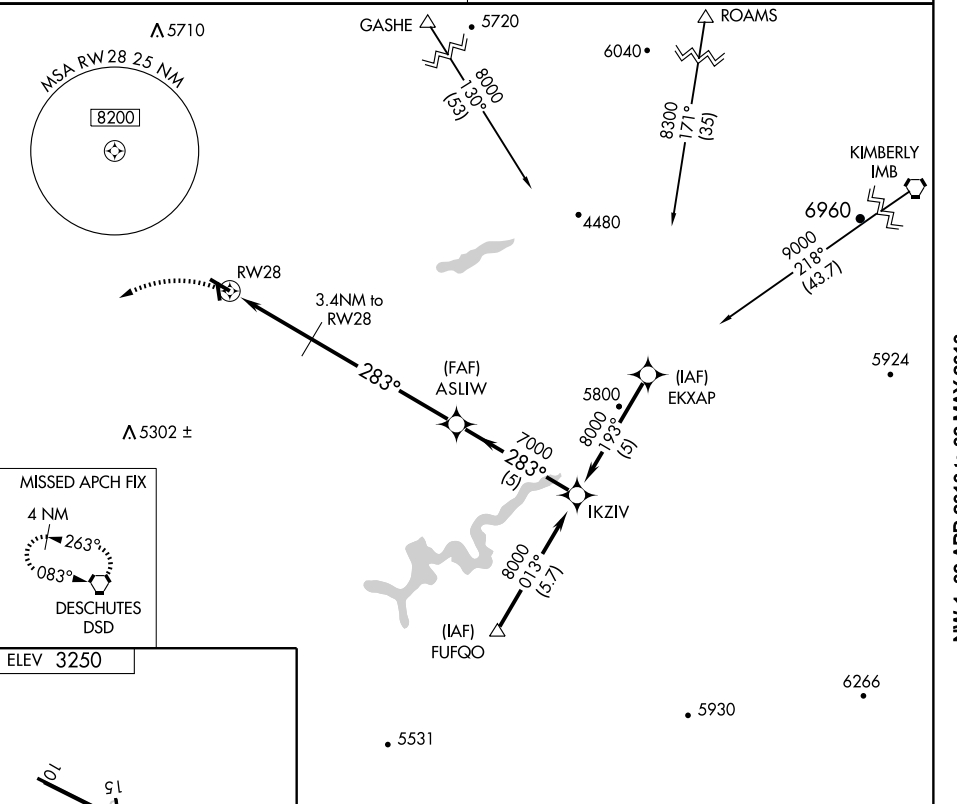
NA

GPS or RNP- 0.3 required. DME/DME RNP- 0.3 NA.
Use Roberts Field altimeter setting.

MISSED APPROACH: Climbing left turn to 7000 direct DSD
VORTAC and hold.

SEATTLE CENTER
128.15 257.75

UNICOM
122.8 (CTAF) 0

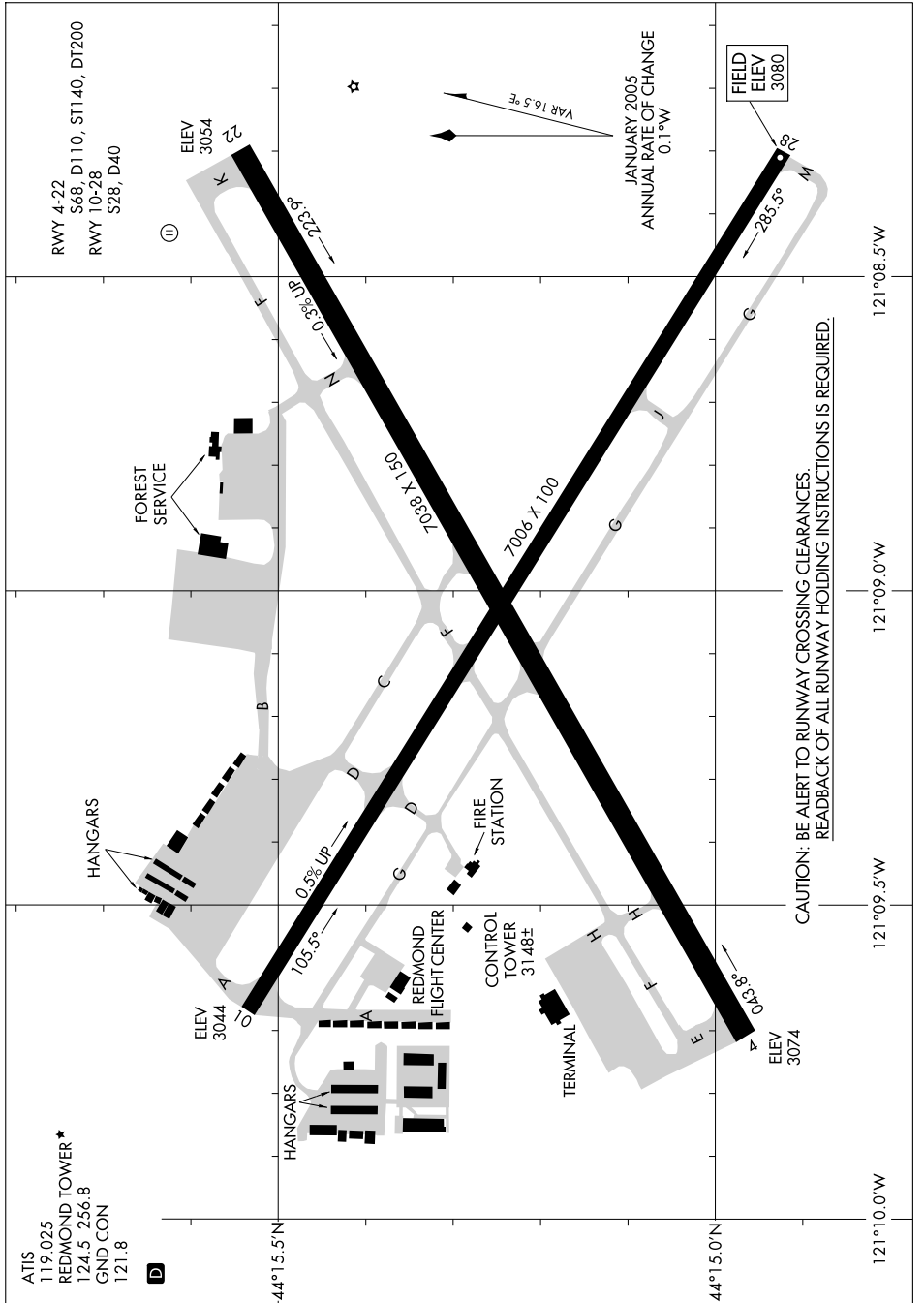


7000		DSD	VGSi and descent angles not coincident.		IKZIV
			ASLIW		8000
3.4 NM to RW28		3.4 NM to RW28		283°	
RW28		4620		7000	
3.4 NM		6 NM		5 NM	
CATEGORY	A	B	C	D	
LNAV MDA	3840-1	594 (600-1)	3840-1½ 594 (600-1½)	NA	
CIRCLING	4060-1 810 (900-1)	4100-1¼ 850 (900-1¼)	4100-2½ 850 (900-2½)	4100-2¾ 850 (900-2¾)	

AIRPORT DIAGRAM

AL-345 (FAA)

REDMOND/ ROBERTS FIELD (RDM)
REDMOND, OREGON



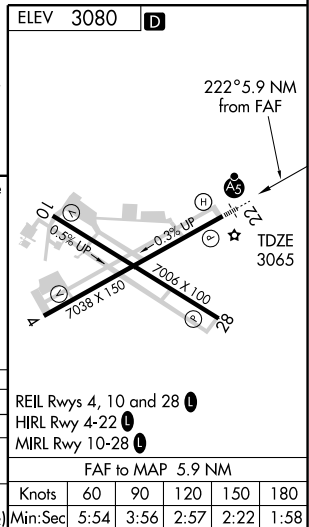
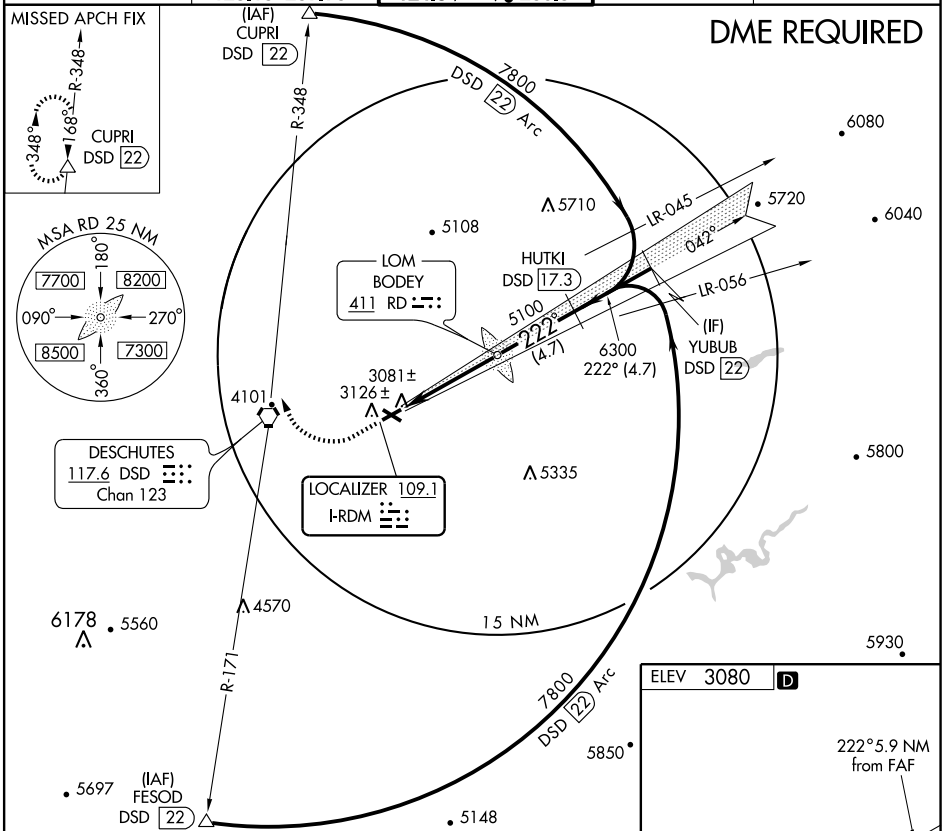
NW-1, 08 APR 2010 to 08 MAY 2010

ILS or LOC RWY 22

REDMOND/ROBERTS FIELD (RDM)

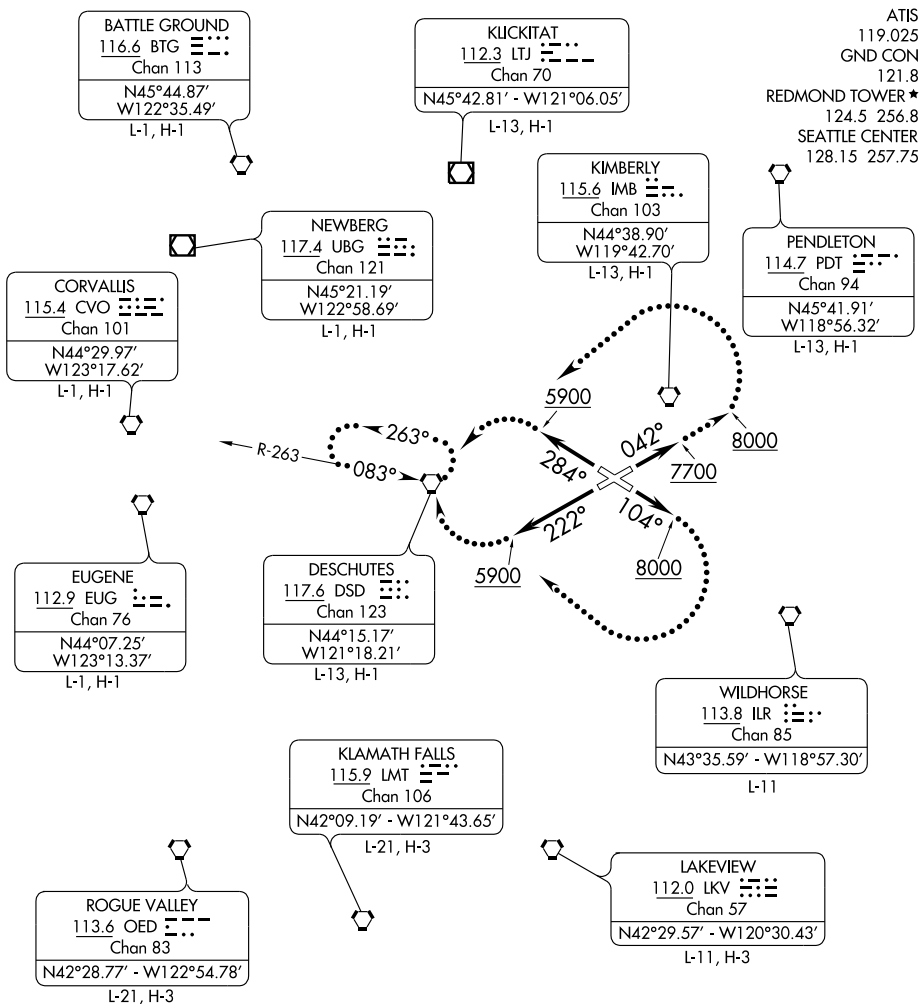
MALSR

MISSED APPROACH: Climb to 3500 then climbing right turn to 7000 via heading 315° and DSD VORTAC R-348 to CUPRI/DSD 22 DME and hold.



REDMOND ONE DEPARTURE

REDMOND, OREGON

TAKE-OFF OBSTACLE

Rwy 28: Numerous trees beginning 1' from DER, 356' right of centerline, 12' AGL/3079' MSL.
Tree 364' from DER, 448' left of centerline, 15' AGL/3054' MSL.

TAKE-OFF MINIMUMS

Rwy 4: Standard with minimum obstacle climb of 371' per NM to 13000, ATC climb of 465' per NM to 7700.
Rwy 10: Standard with minimum climb of 406' per NM to 13000.
Rwy 22: Standard with minimum obstacle climb of 356' per NM to 13000, ATC climb of 406' per NM to 5900.
Rwy 28: Standard with minimum climb of 358' per NM to 13000.

NOTE: RADAR required.

NOTE: Chart not to scale.

(NARRATIVE ON THE FOLLOWING PAGE)

REDMOND ONE DEPARTURE

REDMOND, OREGON



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 4: Climb heading 042° or ATC assigned heading to 7700 for radar vectors to assigned route/fix, Thence. . . .

TAKE-OFF RUNWAY 10: Climb heading 104° or ATC assigned heading to 8000 for radar vectors to assigned route/fix, Thence. . . .

TAKE-OFF RUNWAY 22: Climb heading 222° or ATC assigned heading to 5900 for radar vectors to assigned route/fix, Thence. . . .

TAKE-OFF RUNWAY 28: Climb heading 284° or ATC assigned heading to 5900 for radar vectors to assigned route/fix, Thence. . . .

. . . . Maintain 14000 or assigned altitude, expect filed altitude/flight level five minutes after departure.

LOST COMMUNICATIONS: If no contact with Seattle Center after reaching 6000, continue climb to assigned altitude and:

TAKE-OFF RUNWAY 4: Continue climb to 8000, then climbing left turn direct DSD VORTAC. . . .

TAKE-OFF RUNWAY 10: Climbing right turn direct DSD VORTAC. . . .

TAKE-OFF RUNWAY 22: Climbing right turn direct DSD VORTAC. . . .

TAKE-OFF RUNWAY 28: Climbing left turn direct DSD VORTAC. . . .

. . . . Climb-in-hold at DSD VORTAC (hold W, LT, 083° inbound) to cross DSD VORTAC at or above the MEA before proceeding on course.

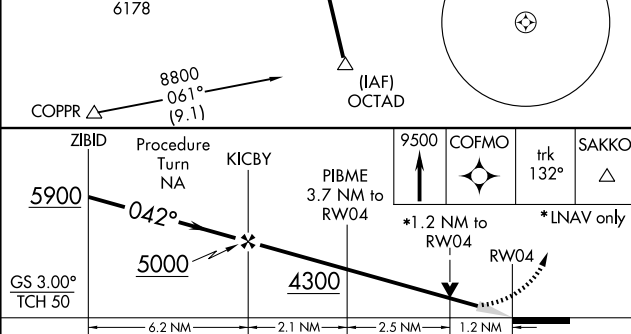
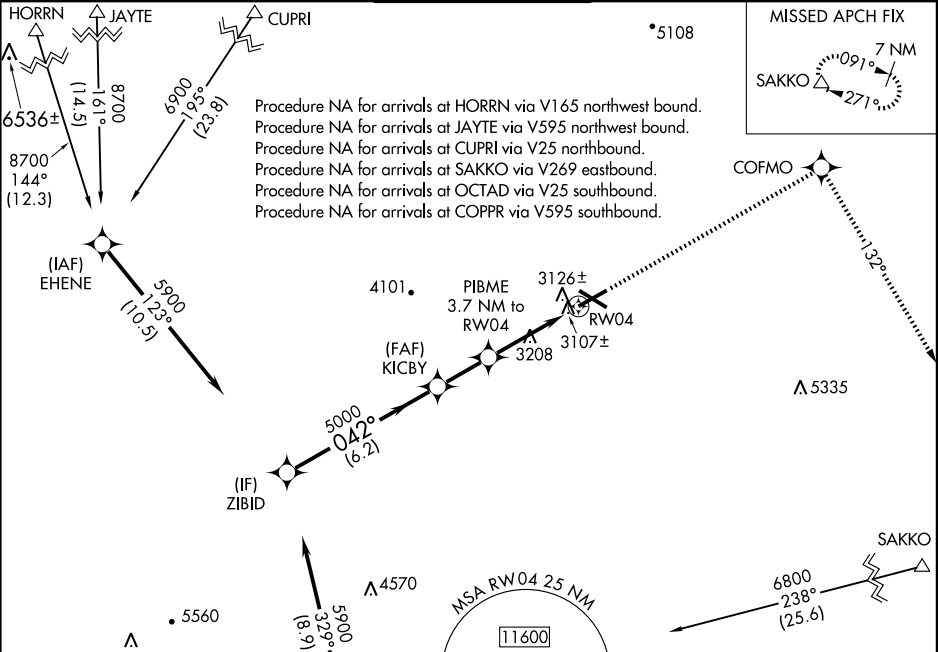
WAAS CH 70514 W04A	APP CRS 042°	Rwy Idg TDZE Apt Elev 7038 3075 3080
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RNAV (GPS) RWY 4
REDMOND/ROBERTS FIELD (RDM)

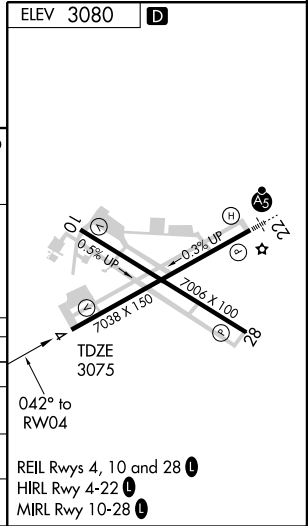
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -21°C (-5°F) or above 43°C (109°F). DME/DME RNP-0.3 NA. When local altimeter setting not received procedure NA.

MISSED APPROACH: Climb to 9500 direct COFMO and via track 132° to SAKKO and hold, continue climb-in-hold to 9500.

ATIS 119.025	SEATTLE CENTER 128.15 257.75	REDMOND TOWER ★ 124.5 (CTAF) 0 256.8	GND CON 121.8	UNICOM 122.95
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CATEGORY	A	B	C	D
LPV DA		3325-3/4	250 (300-3/4)	
LNAV/VNAV DA		3367-1	292 (300-1)	
LNAV MDA	3520-1	445 (500-1)	3520-1 1/4 445 (500-1 1/4)	3520-1 1/2 445 (500-1 1/2)
CIRCLING	3520-1 440 (500-1)	3540-1 460 (500-1)	3540-1 1/2 460 (500-1 1/2)	3640-2 560 (600-1)



WAAS CH 53514 W10A	APP CRS 104°	Rwy Idg TDZE Apt Elev 7006 3067 3080
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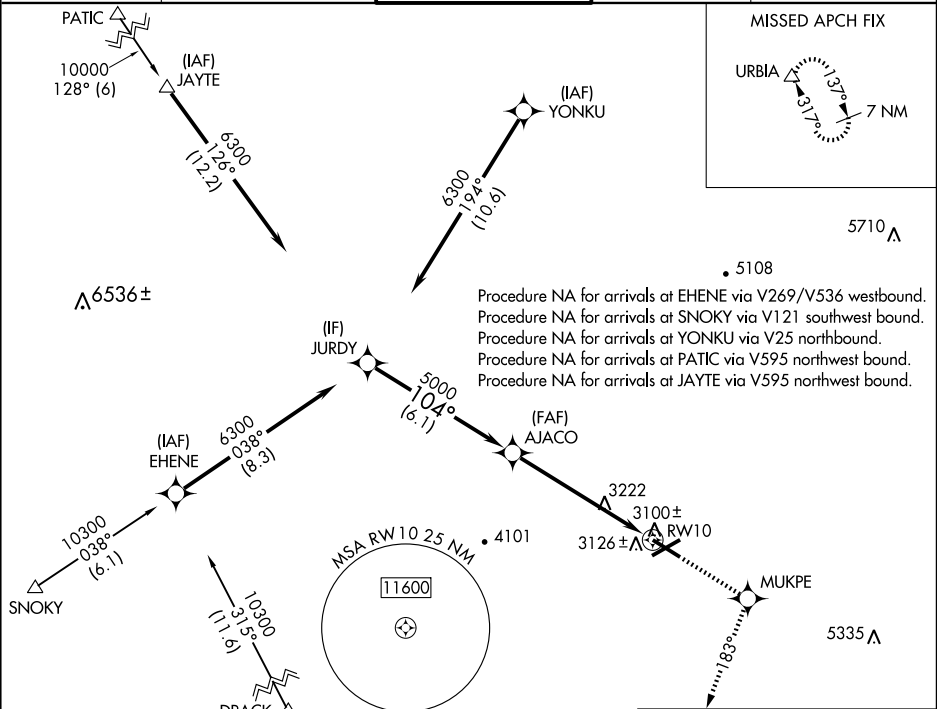
RNAV (GPS) RWY 10

REDMOND/ROBERTS FIELD (RDM)

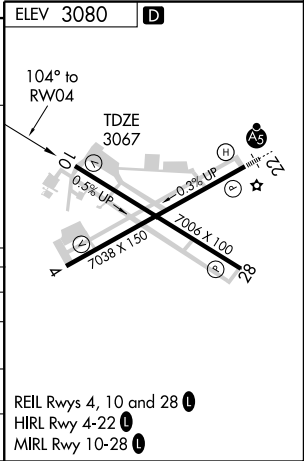
▽ DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA.
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below
-21°C (-5°F) or above 43°C (109°F).
When local altimeter setting not received, procedure NA.

MISSED APPROACH: Climb to 8500 direct MUKPE
and via track 183° to URBIA and hold, continue
climb-in-hold to 8500.

ATIS 119.025	SEATTLE CENTER 128.15 257.75	REDMOND TOWER ★ 124.5 (CTAF) 0 256.8	GND CON 121.8	UNICOM 122.95
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Procedure Turn NA	JURDY	AJACO	8500	MUKPE	trk 183°	URBIA
GS 3.00° TCH 50	6300	104°	5000	RW10		
	6.1 NM		5.9 NM			
CATEGORY	A	B	C	D		
LPV DA	3317-1		250 (300-1)			
LNAV/VNAV DA	3370-1		303 (300-1)			
LNAV MDA	3480-1 413 (400-1)		3480-1¼ 413 (400-1¼)			
CIRCLING	3480-1 400 (400-1)	3540-1 460 (500-1)	3540-1½ 460 (500-1½)	3640-2 560 (600-1)		



WAAS CH 82514 W22A	APP CRS 222°	Rwy Idg 7038 TDZE 3065 Apt Elev 3080
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RNAV (GPS) RWY 22

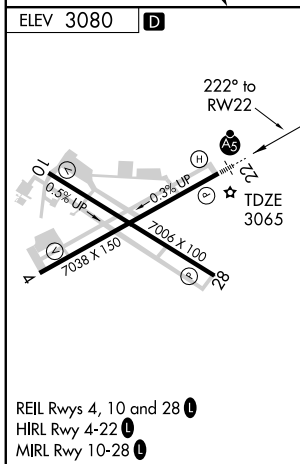
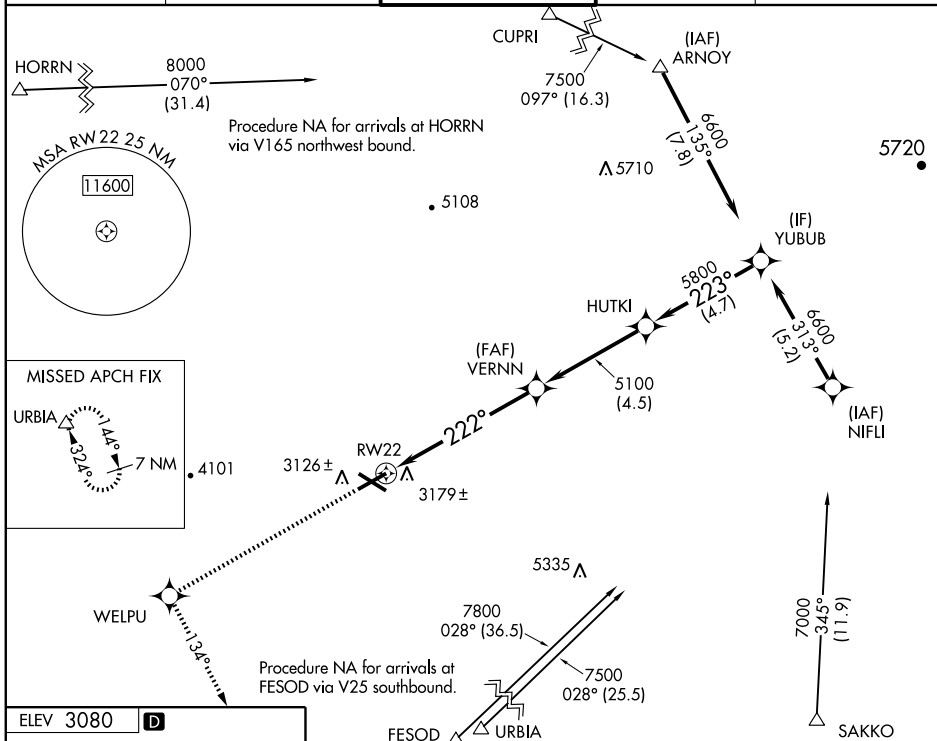
REDMOND/ ROBERTS FIELD (RDM)

T For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -21°C (-5°F) or above 43°C (109°F). DME/DME RNP- 0.3 NA. When local altimeter setting not received, procedure NA. For inoperative MALS, increase LNAV Cat D visibility to 1 ¼ mile.



MISSED APPROACH: Climb to 7600 direct WELPU and via track 134° to URBIA and hold, continue climb-in-hold to 7600.

ATIS 119.025	SEATTLE CENTER 128.15 257.75	REDMOND TOWER ★ 124.5 (CTAF) 0 256.8	GND CON 121.8	UNICOM 122.95
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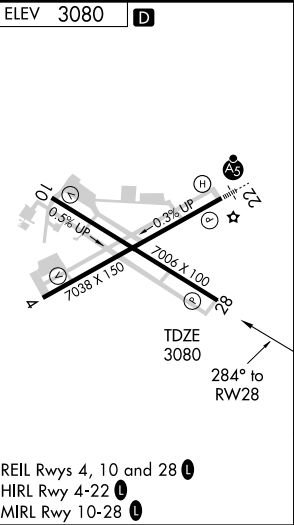
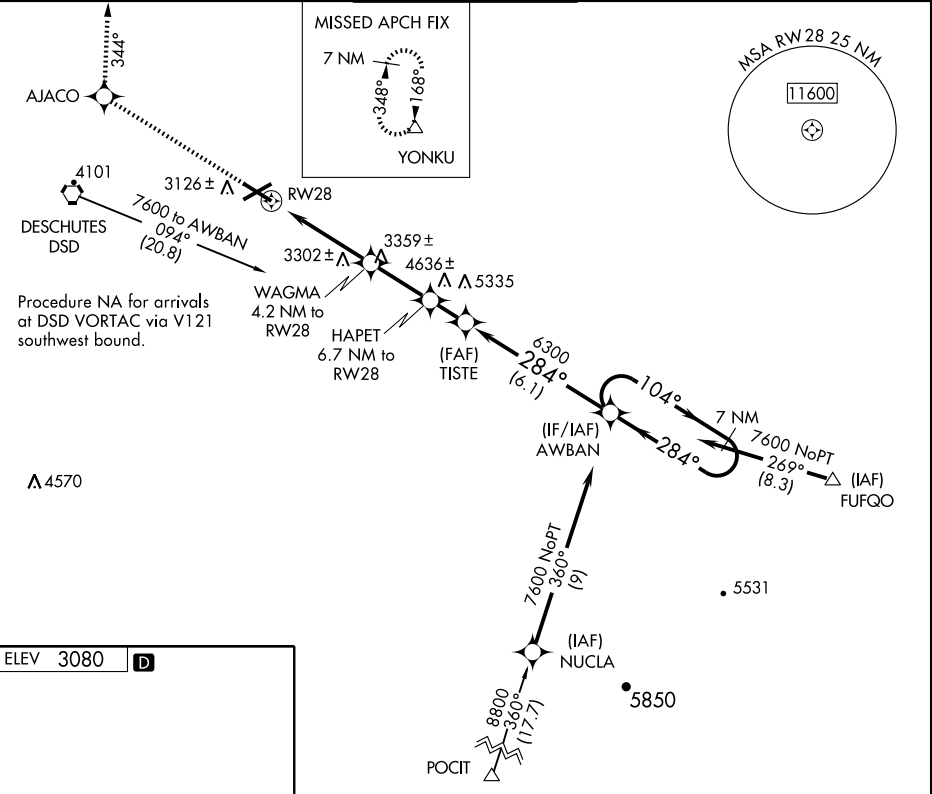
7600 ↑	WELPU ✦	trk 134°	URBIA △	VGSI and RNAV glidepath not coincident.	HUTKI	YUBUB	Procedure Turn NA
* LNAV only				VERNN			
1.1 NM				5.1 NM	4.5 NM	4.7 NM	
CATEGORY	A		B		C		D
LPV DA			3265-½		200 (200-½)		
LNAV/ VNAV DA			3449-1		384 (400-1)		
LNAV MDA			3440-½		375 (400-½)		3440-1 375 (400-1)
CIRCLING	3480-1 400 (400-1)		3540-1 460 (500-1)		3540-1½ 460 (500-1½)		3640-2 560 (600-1)

APP CRS	Rwy Idg	7006
284°	TDZE	3080
	Apt Elev	3080

RNAV (GPS) Y RWY 28

REDMOND/ROBERTS FIELD (RDM)

▼ DME/DME RNP -0.3 NA. When local altimeter setting not received, procedure NA.		MISSED APPROACH: Climb to 7000 direct AJACO and via track 344° to YONKU and hold, continue climb-in-hold to 7000.		
ATIS 119.025	SEATTLE CENTER 128.15 257.75	REDMOND TOWER★ 124.5 (CTAF) 256.8	GND CON 121.8	UNICOM 122.95



7000		AJACO	trk 344°	YONKU	HAPET 6.7 NM to RW28	TISTE	AWBAN	7 NM Holding Pattern
		1.4 NM to RW28		WAGMA 4.2 NM to RW28	3.64° TCH 50	6300	104° → 7600	← 284°
		4740		5720			VGSI and descent angles not coincident.	
		1.4 NM	2.8 NM	2.5 NM	1.5 NM	6.1 NM		
CATEGORY	A		B		C		D	
LNAV MDA	3560-1		480 (500-1)		3560-1¼ 480 (500-1¼)		NA	
CIRCLING	3560-1		480 (500-1)		3560-1½ 480 (500-1½)		NA	

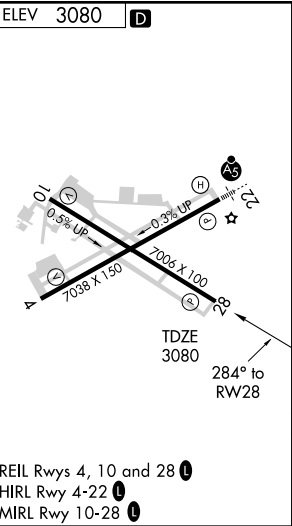
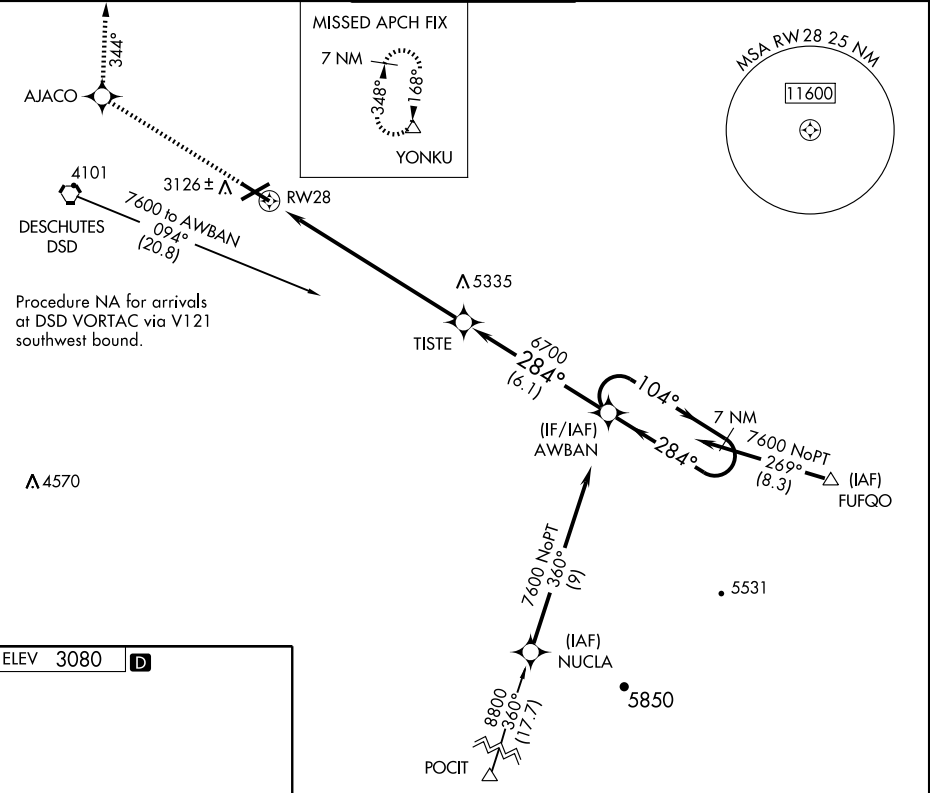
WAAS CH 90214 W28A	APP CRS 284°	Rwy Idg TDZE Apt Elev	7006 3080 3080
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RNAV (GPS) Z RWY 28

REDMOND/ROBERTS FIELD (RDM)

▼ DME/DME RNP -0.3 NA. When local altimeter setting not received, procedure NA. Circling requires descent on glidepath to MDA.	MISSED APPROACH: Climb to 7000 direct AJACO and via track 344° to YONKU and hold, continue climb-in-hold to 7000.
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ATIS 119.025	SEATTLE CENTER 128.15 257.75	REDMOND TOWER★ 124.5 (CTAF) 256.8	GND CON 121.8	UNICOM 122.95
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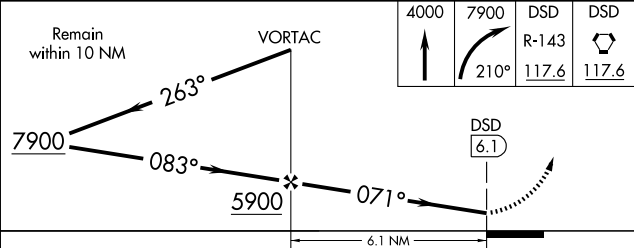
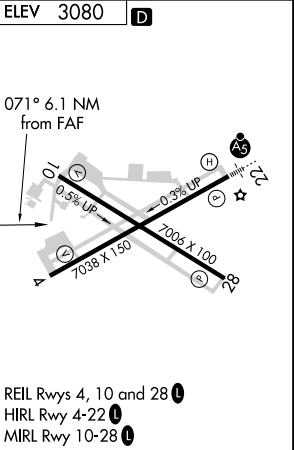
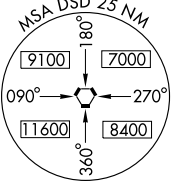
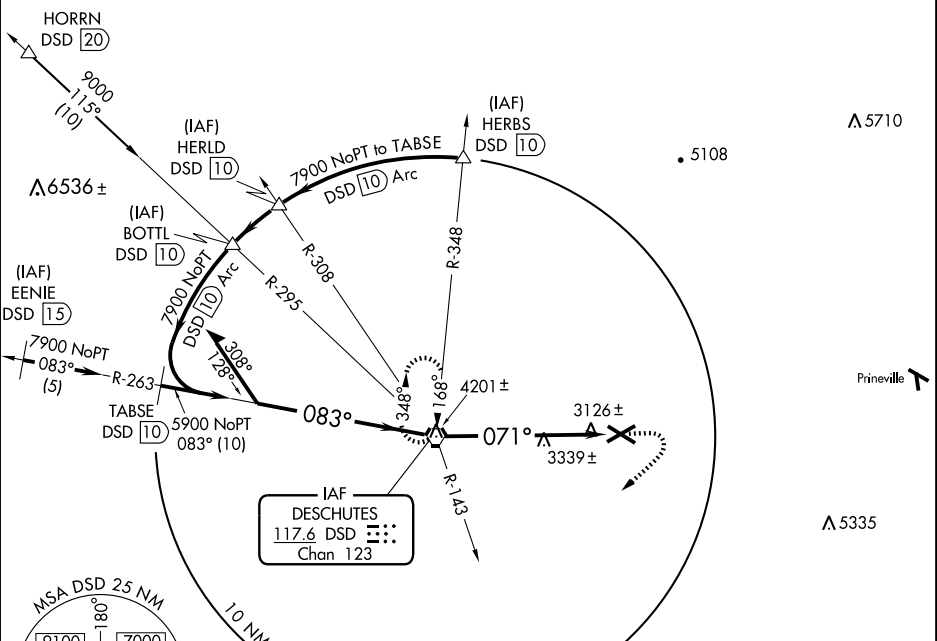


7000 ↑	AJACO ✧	344° trk	YONKU ✧			
VGSI and RNAV glidepath not coincident.				7 NM Holding Pattern		
RW28				6700	284°	104° → 7600 ← 284°
				6700	GS 4.03° TCH 50	
8.2 NM				6.1 NM		
CATEGORY	A		B		C	D
LPV DA	3366- ³ / ₄ 286 (300- ³ / ₄)		3366-1 286 (300-1)		NA	
CIRCLING	3480-1 400 (400-1)		3540-1 460 (500-1)		NA	

VORTAC DSD 117.6 Chan 123	APP CRS 071°	Rwy Idg TDZE Apt Elev 3080	N/A N/A 3080
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MISSED APPROACH: Climb to 4000 then climbing right turn to 7900 via heading 210° and DSD R-143 to DSD VORTAC and hold.

ATIS 119.025	SEATTLE CENTER 128.15 257.75	REDMOND TOWER ★ 124.5 (CTAF) 0 256.8	GND CON 121.8	UNICOM 122.95
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CATEGORY	A	B	C	D	FAF to MAP 6.1 NM					
CIRCLING	3600-1	520 (600-1)	3600-1½ 520 (600-1½)	3640-2 560 (600-2)	Knots	60	90	120	150	180
					Min:Sec	6:06	4:04	3:03	2:26	2:02

VORTAC DSD 117.6 Chan 123	APP CRS 249°	Rwy Idg TDZE Apt Elev 7038 3065 3080
---	------------------------	--

VOR/DME RWY 22
REDMOND/ROBERTS FIELD (RDM)

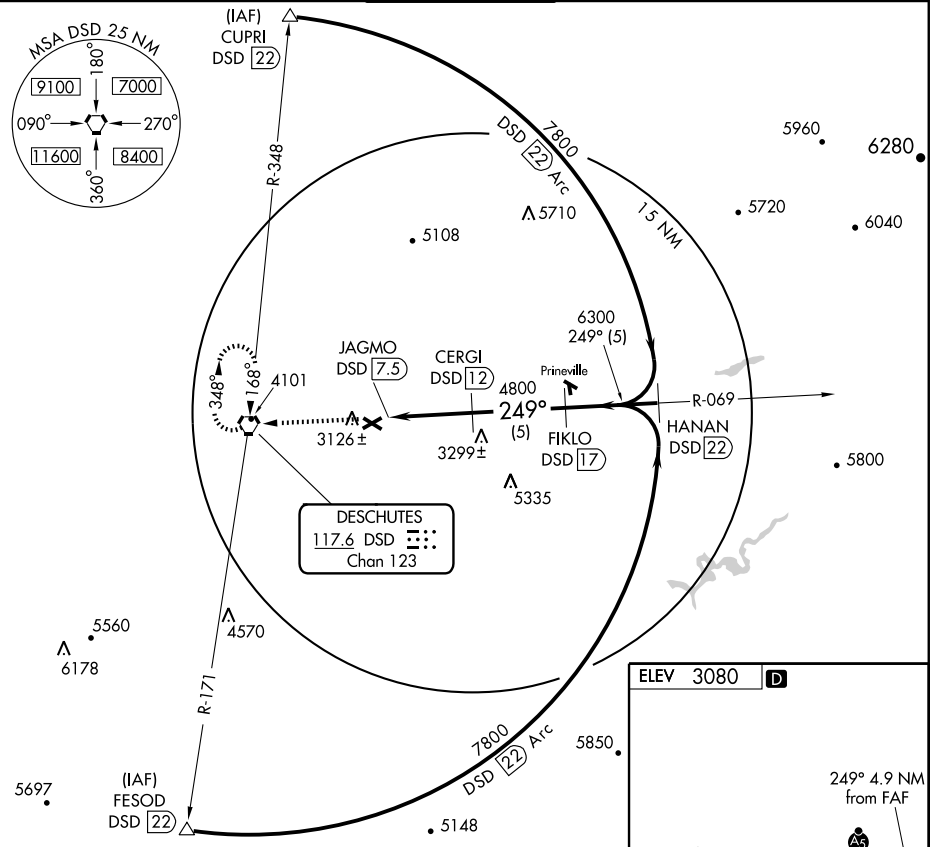
**A**

Inoperative table does not apply.

**MALSR**

MISSED APPROACH: Climb to 7000 direct DSD VORTAC and hold.

ATIS 119.025	SEATTLE CENTER 128.15 257.75	REDMOND TOWER★ 124.5 (CTAF) 0 256.8	GND CON 121.8	UNICOM 122.95
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ELEV 3080

D

249° 4.9 NM from FAF

0.5% Up

0.3% Up

7000 x 100

7038 x 150

28

101

22

TDZE 3065

CATEGORY	A	B	C	D	E
S-22	4000-1¼ 935 (1000-1¼)		4000-2¾ 935 (1000-2¾)	4000-3 935 (1000-3)	
CIRCLING	4000-1¼ 920 (1000-1¼)		4000-2¾ 920 (1000-2¾)	4000-3 920 (1000-3)	

REIL Rwy 4, 10 and 28

HIRL Rwy 4-22

MIRL Rwy 10-28

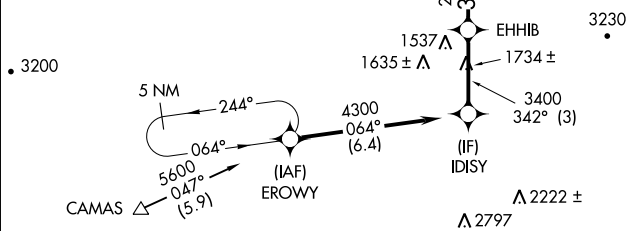
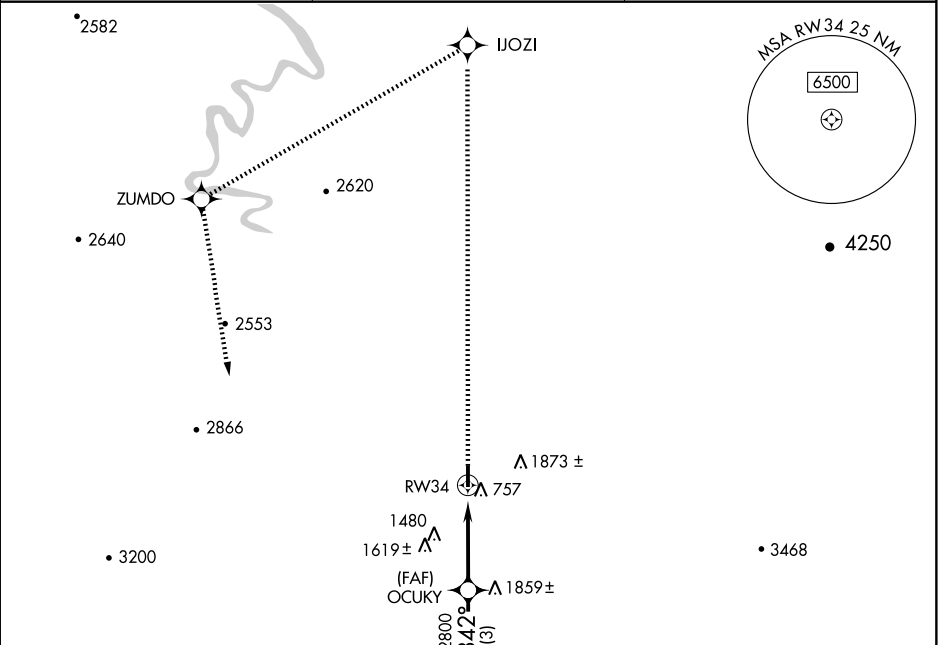
RNAV (GPS)-B
ROSEBURG RGNL (RBG)

APP CRS 342°	Rwy Idg TDZE Apt Elev	N/A N/A 529
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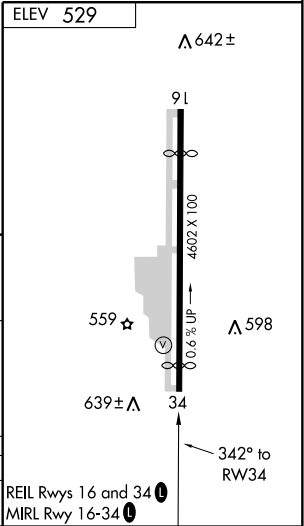
⚠ Circling NA east of Rwy 16-34.
⚠ If local altimeter setting not received, use North Bend
altimeter setting and increase all MDAs 520 feet.
DME/DME RNP -0.3 NA.

MISSED APPROACH: Climb to 5600 direct IJOZI and
left turn via 222° track to ZUMDO and via 153° track
to EROWY and hold.

ASOS 135.475	SEATTLE CENTER 121.4 239.0	UNICOM 122.8 (CTAF) 0
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VGSI and descent angles not coincident			
Procedure Turn NA			
3 NM			
3 NM			
3.8 NM			
CATEGORY	A	B	C
CIRCLING	1700-1¼ 1171 (1200-1¼)	1700-1½ 1171 (1200-1½)	1700-3 1171 (1200-3)



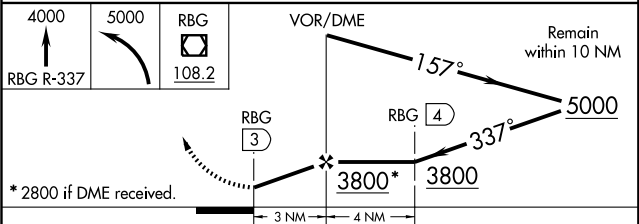
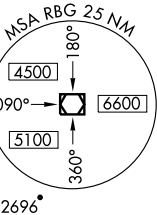
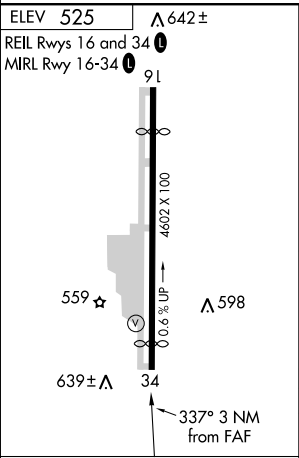
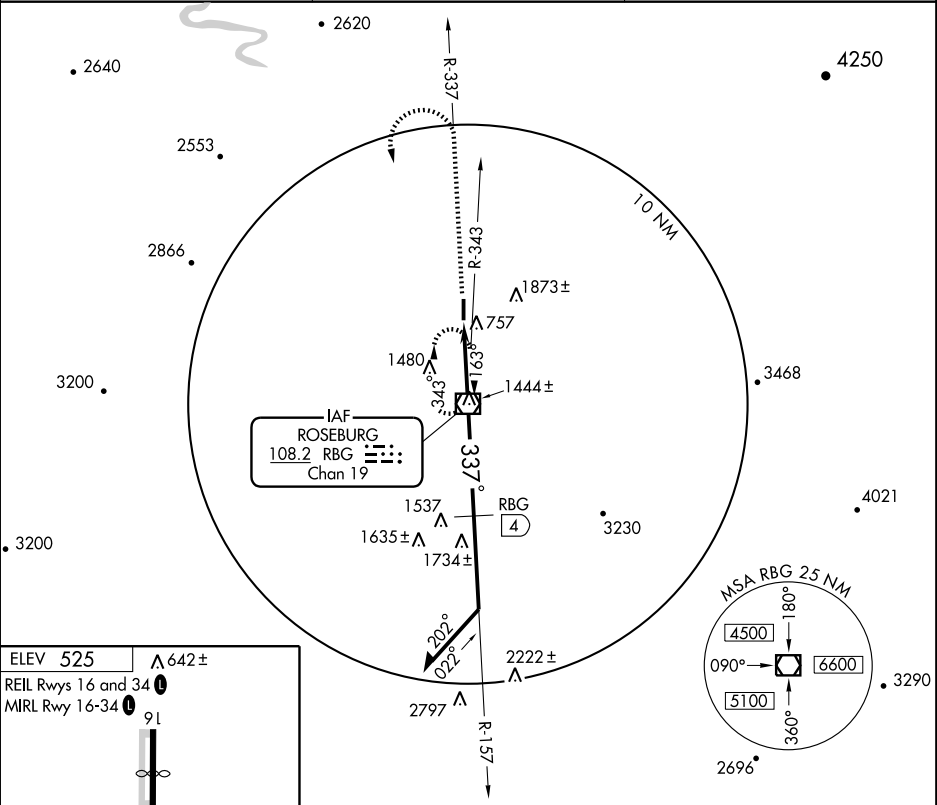
VOR/DME RBG 108.2 Chan 19	APP CRS 337°	Rwy Idg TDZE Apt Elev	N/A N/A 525
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VOR-A
ROSEBURG RGNL (RBG)

NA Circling not authorized east of Rwy 16-34.

MISSED APPROACH: Climb to 4000 via RBG R-337 within 1.5 NM; then climbing left turn to 5000 direct RBG VOR/DME and hold.

ASOS 135.475	SEATTLE CENTER 121.4 239.0	UNICOM 122.8 (CTAF)
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<div>FAF to MAP 3 NM</div> <div>337° 3 NM from FAF</div>						CATEGORY	A		B		C		D	
						CIRCLING	2600-1¼ 2075 (2100-1¼)		2600-1½ 2075 (2100-1½)		2600-3		2075 (2100-3)	
						DME MINIMUMS								
Knots	60	90	120	150	180	CIRCLING	1740-1¼	1740-1½	1740-3	1920-3				
Min:Sec	3:00	2:00	1:30	1:12	1:00		1215 (1300-1¼)	1215 (1300-1½)	1215 (1300-3)	1395 (1400-3)				

AIRPORT DIAGRAM

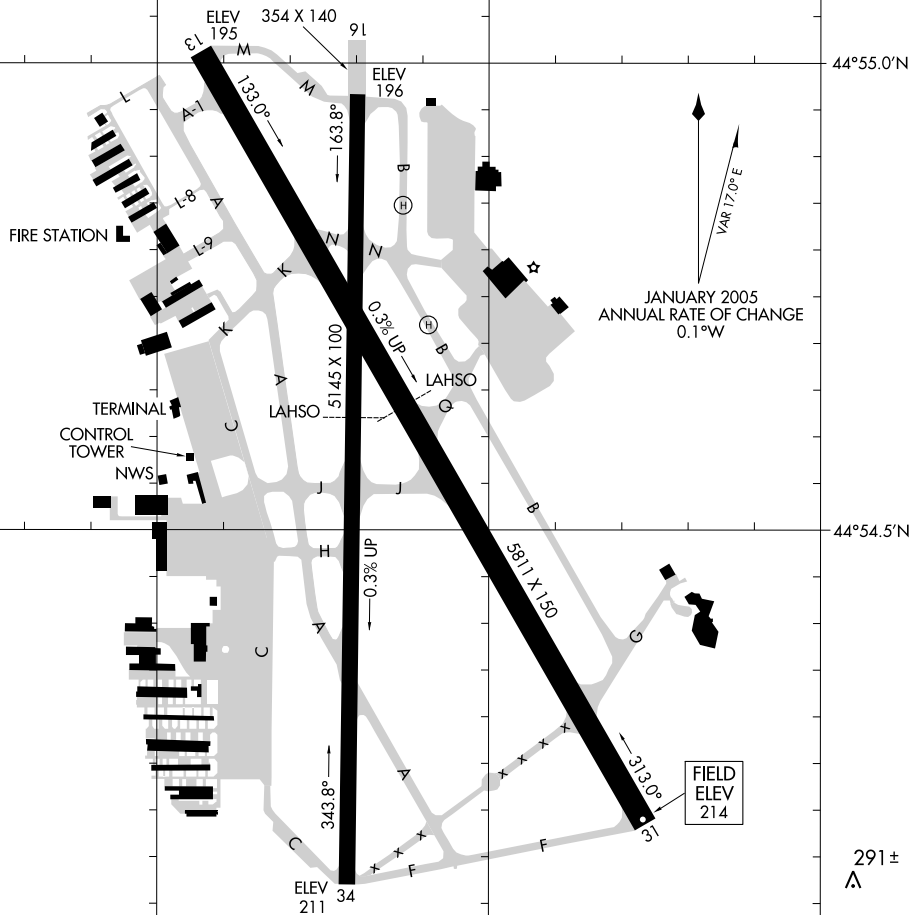
AL-361 (FAA)

SALEM/MCENARY FIELD (SLE)

SALEM, OREGON

ATIS 124.55
SALEM TOWER ★
119.1 257.2
GND CON
121.9

RWY 13-31
S100, D122, ST154, DT185
RWY 16-34
S30, D60, DT100



123°00.5'W

123°00.0'W

122°59.5'W

NW-1, 08 APR 2010 to 06 MAY 2010

LOC/DME I-SLE	APP CRS	Rwy Idg	5811
110.3	313°	TDZE	214
Chan 40		Apt Elev	214

***RVR 1800** authorized with the use of FD or AP or HUD to DA.
When local altimeter setting not received, use Mc Minnville
altimeter setting and increase DA 49 feet, and all MDA 60 feet;
increase circling Cat D visibility to 2 ¾ miles.
VDP NA when using Mc Minnville altimeter setting.

MALSR

MISSED APPROACH: Climb to 4000
via I-SLE NW course to ARTTY
FM/INT/I-SLE 5.6 DME and hold,
continue climb-in-hold to 4000.

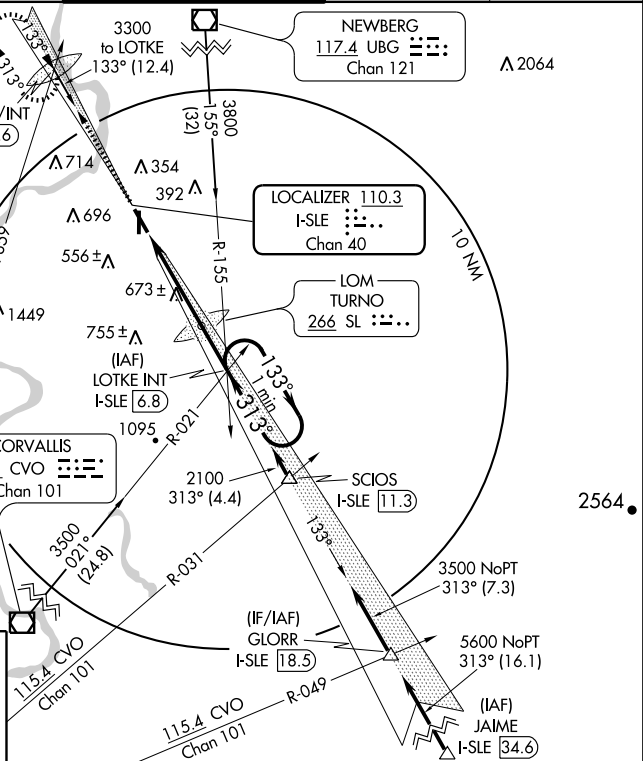
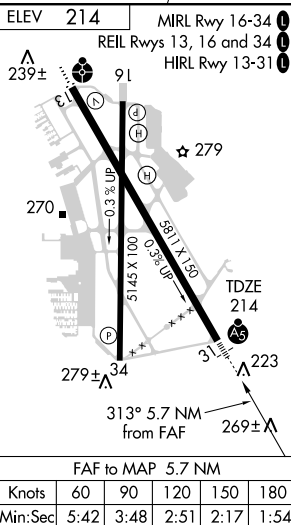
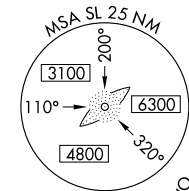
ATIS	SEATTLE CENTER	SALEM TOWER *	GND CON	UNICOM
124.55	125.8 291.7	119.1(CTAF) 257.2	121.9	122.95

ALTERNATE MISSED
APCH FIX

TURN
SL 266

133°

Procedure NA for arrivals at JAIME
via V536 eastbound.
Procedure NA for arrivals at GLORR
via V448 southbound.




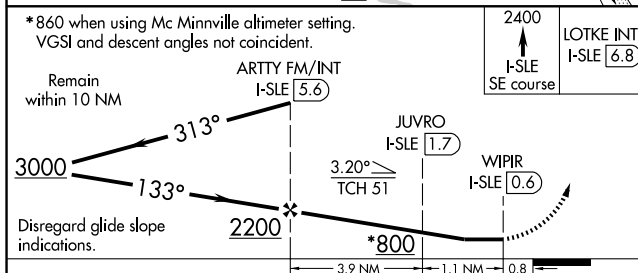
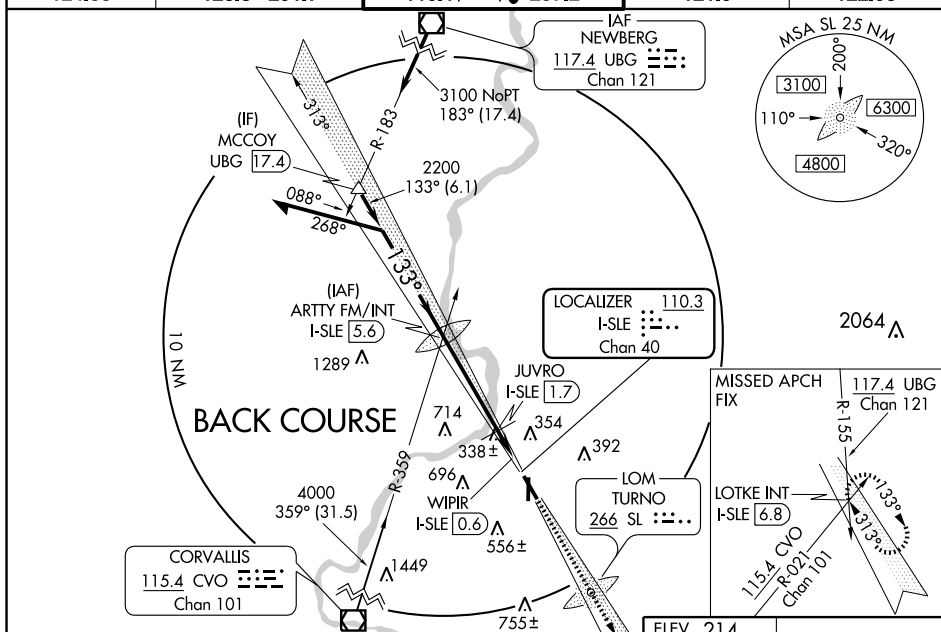
4000 ↑ I-SLE NW course		ARTTY FM/INT I-SLE 5.6	LOTKE INT I-SLE 6.8	One Minute Holding Pattern	
I-SLE 1.1		I-SLE 3.3	2100	133° →	2400
2.2 NM		3.5 NM	2100	← 313°	
GS 3.00° TCH 42					
CATEGORY	A	B	C	D	
S-ILS 31	*414/24 200 (200-½)				
S-LOC 31	960/24	960/40	960-1¾	960-2	
	746 (800-½)	746 (800-¾)	746 (800-1¾)	746 (800-2)	
CIRCLING	960-1	960-1¼	960-2¼	1000-2½	
	746 (800-1)	746 (800-1¼)	746 (800-2¼)	786 (800-2½)	

LOC/DME I-SLE 110.3 Chan 40	APP CRS 133°	Rwy Idg TDZE 204 Apt Elev 214	5811
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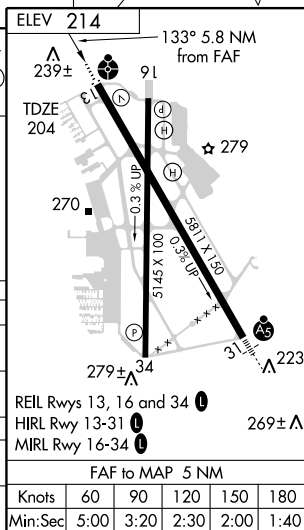
LOC BC RWY 13

SALEM / MCNARY FIELD (SLE)

<div><div><div><div></div><div></div><div></div></div><div>NA</div></div></div> <div>Inoperative table does not apply to S-13 Cat C or when using McMinnville altimeter setting to S-13 Cat C and JUVRO fix minimums Cat C. ARTTY INT not authorized for final approach fix. When local altimeter setting not received, use McMinnville altimeter setting and increase all MDA 60 feet and Cat C and D visibility ¼ mile, for JUVRO fix minimums, increase S-13 Cat C visibility ½ mile, Cat D visibility ¼ mile.</div>	<div><div>ODALS</div><div></div></div>	<div>MISSED APPROACH: Climb to 2400 via I-SLE SE course to LOTKE INT/I-SLE 6.8 DME and hold, continue climb-in-hold to 2400.</div>		
<div><div>ATIS</div><div>124.55</div></div>	<div><div>SEATTLE CENTER</div><div>125.8 291.7</div></div>	<div><div>SALEM TOWER ★</div><div>119.1(CTAF) 0 257.2</div></div>	<div><div>GND CON</div><div>121.9</div></div>	<div><div>UNICOM</div><div>122.95</div></div>



CATEGORY	A	B	C	D
S-13	800-¾	596 (600-¾)	800-1½	800-1¾
			596 (600-1½)	596 (600-1¾)
CIRCLING	900-1	940-1	940-2	1000-2½
	686 (700-1)	726 (800-1)	726 (800-2)	786 (800-2½)
JUVRO FIX MINIMUMS				
S-13	600-¾	396 (400-¾)		600-1¼
				396 (400-1¼)
CIRCLING	900-1	940-1	940-2	1000-2½
	686 (700-1)	726 (800-1)	726 (800-2)	786 (800-2½)

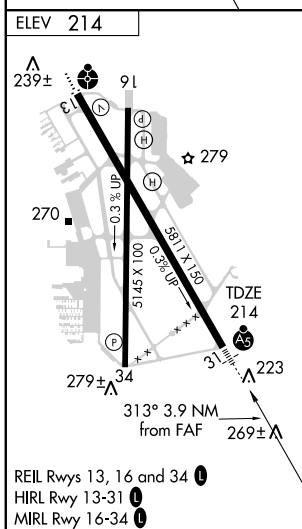
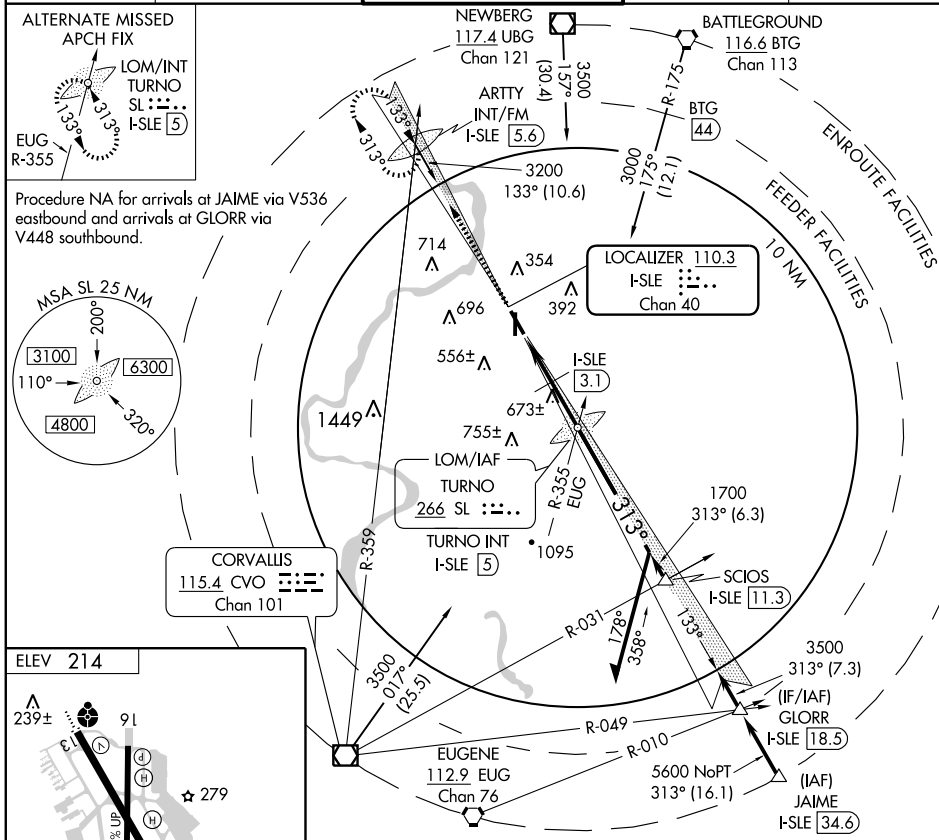


LOC/DME I-SLE	APP CRS	Rwy Idg	5811
110.3	313°	TDZE	214
Chan 40		Apt Elev	214

LOC/DME RWY 31

SALEM / MCNARY FIELD (SLE)

		MALSR 	MISSED APPROACH: Climb to 4000 via I-SLE LOC northwest course to ARTTY FM/Int/I-SLE 5.6 DME and hold, continue climb-in-hold to 4000.	
ATIS 124.55	SEATTLE CENTER 125.8 291.7	SALEM TOWER ★ 119.1(CTAF) 257.2	GND CON 121.9	UNICOM 122.95



4000 ARTTY INT I-SLE 5.6		TURNO LOM/INT I-SLE 5		Remain within 10 NM	
I-SLE LOC		I-SLE 3.1		2600	
I-SLE 1.1		I-SLE 2.5		1700	
1.4 NM		0.6		1.9 NM	
CATEGORY	A	B	C	D	
S-31	780/24	566 (600-1/2)	780/50	780/60	
			566 (600-1)	566 (600-1 1/4)	
CIRCLING	900-1	940-1	940-2	1000-2 1/2	
	686 (700-1)	726 (800-1)	726 (800-2)	786 (800-2 1/2)	


WAAS CH 86202 W31A	APP CRS 313°	Rwy Idg TDZE Apt Elev	5811 214 214
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RNAV (GPS) RWY 31

SALEM / MCNARY FIELD (SLE)

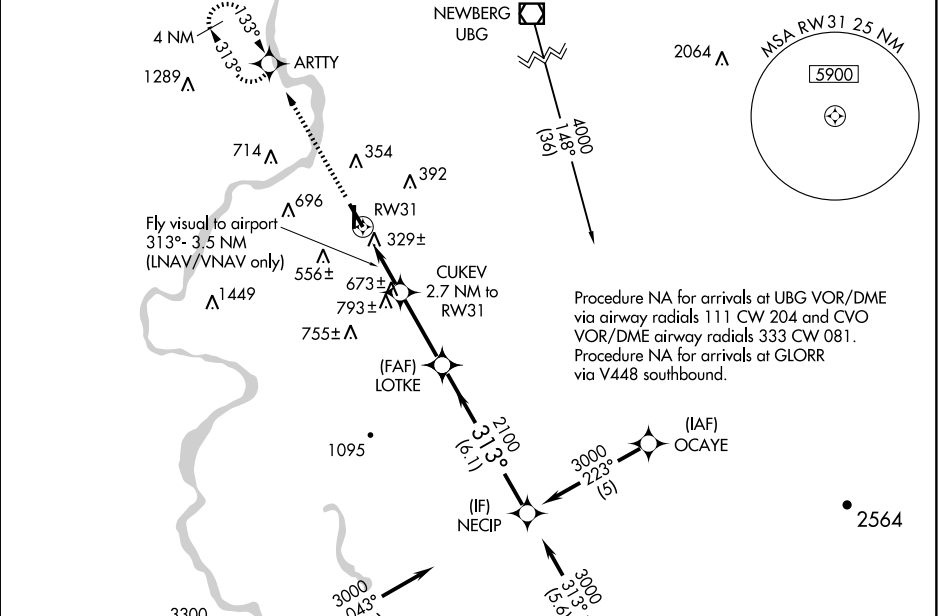
⚠ Inoperative table does not apply to LNAV/VNAV. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 48°C (118°F). DME/DME RNP-0.3 NA. When local altimeter setting not received, use McMinnville altimeter setting and increase all DA 49 feet; increase all MDA 60 feet and LNAV and circling visibility Cats B/C/D ¼ mile. Baro-VNAV and VDP NA when using McMinnville altimeter setting.

MALSR

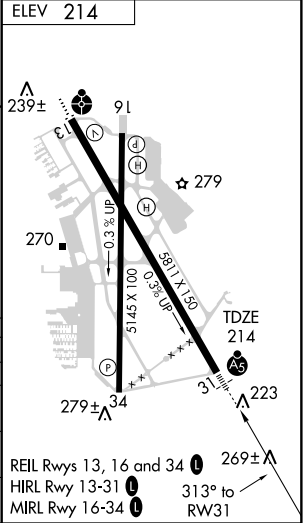


MISSED APPROACH:
Climb to 3700 direct ARTTY and hold, continue climb-in-hold to 3700.

ATIS 124.55	SEATTLE CENTER 125.8 291.7	SALEM TOWER ★ 119.1(CTAF) 0 257.2	GND CON 121.9	UNICOM 122.95
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3700 ARTTY *LNAV only		NECIP	
Fly visual to airport 313°-3.5 NM (LNAV/VNAV only)		3000 Procedure Turn NA	
RW31		GS 3.00° TCH 42	
2.2 NM		0.5	
A		B	
LPV DA		414/24 200 (200-½)	
LNAV/VNAV DA		1334-2 1120 (1200-2)	1334-3 1120 (1200-3)
LNAV MDA		940/24 726 (800-½)	940-1½ 726 (800-1½)
CIRCLING		940-1 726 (800-1)	940-2 726 (800-2)



SALEM TWO DEPARTURE

SL-361 (FAA)

SALEM / MCNARY (SLE)
SALEM, OREGON

GND CON

121.9

SALEM TOWER ★

119.1 (CTAF) 257.2

SEATTLE CENTER

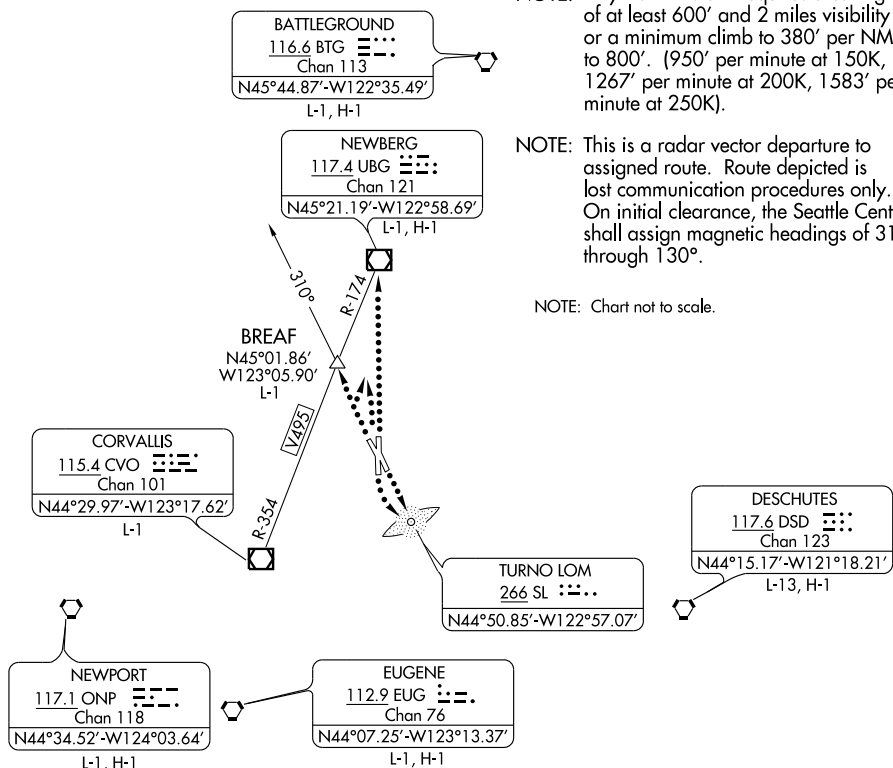
125.8 291.7

NOTE: Rwy 13-This SID requires a ceiling of at least 600' and 2 miles visibility, or a minimum climb of 240' per NM to 800'. (600' per minute at 150K, 800' per minute at 200K, 1000' per minute at 250K).

NOTE: Rwy 16 - This SID requires a ceiling of at least 600' and 2 miles visibility or a minimum climb to 380' per NM to 800'. (950' per minute at 150K, 1267' per minute at 200K, 1583' per minute at 250K).

NOTE: This is a radar vector departure to assigned route. Route depicted is lost communication procedures only. On initial clearance, the Seattle Center shall assign magnetic headings of 310° through 130°.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

Climb via specified turn and heading, contact Seattle Center for vectors to assigned route.

LOST COMMUNICATIONS: If not in contact with Seattle Center after reaching 2000', continue climb to assigned altitude.

Take-off runways 13 and 16: (Rwy 16 turn left) proceed direct to SL LOM thence via (assigned route).

Take-off runways 31 and 34: (Rwy 31 right turn) proceed direct to UBG VOR/DME thence via (assigned route).

Helicopter only-runways 31 and 34: (Rwy 34 turn left) intercept and proceed outbound on the SL LOM 310° bearing to BREA F INT, thence via (assigned route).

LOC/DME I-FKO <u>111.1</u> Chan 48	APP CRS 149°	Rwy Idg 5100 TDZE 55 Apt Elev 55
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LOC/DME RWY 15
SCAPPOOSE INDUSTRIAL AIRPARK (SPB)

T Circling not authorized west of Rwy 15-33.

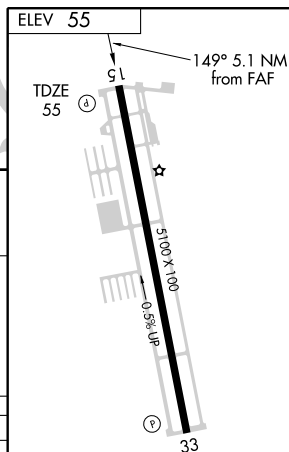
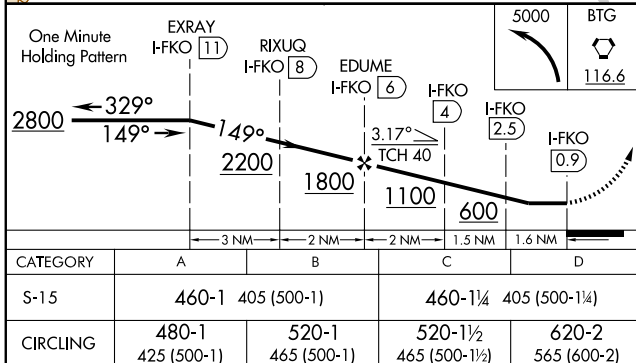
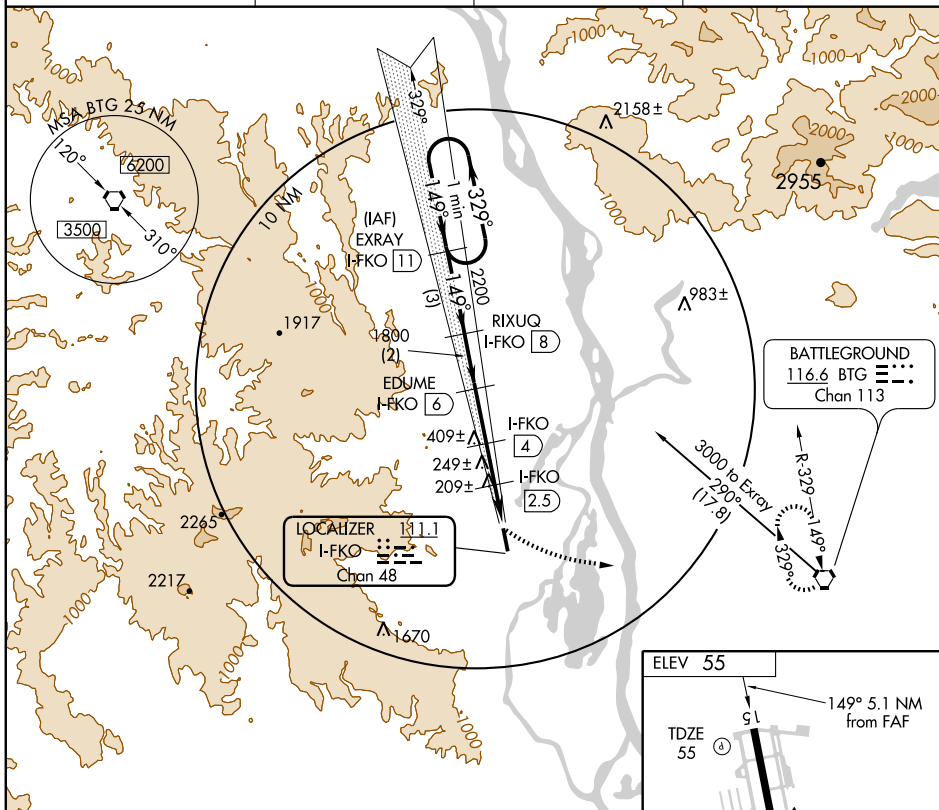
MISSED APPROACH: Climbing left turn to 5000 direct BTG VORTAC and hold.

ASOS
135,875

PORTLAND APP CON
124.35 299.2

CLNC DE
121,65

UNICOM
122.8 (CTAF)



REIL Rwy 15
MIRL Rwy 15-33

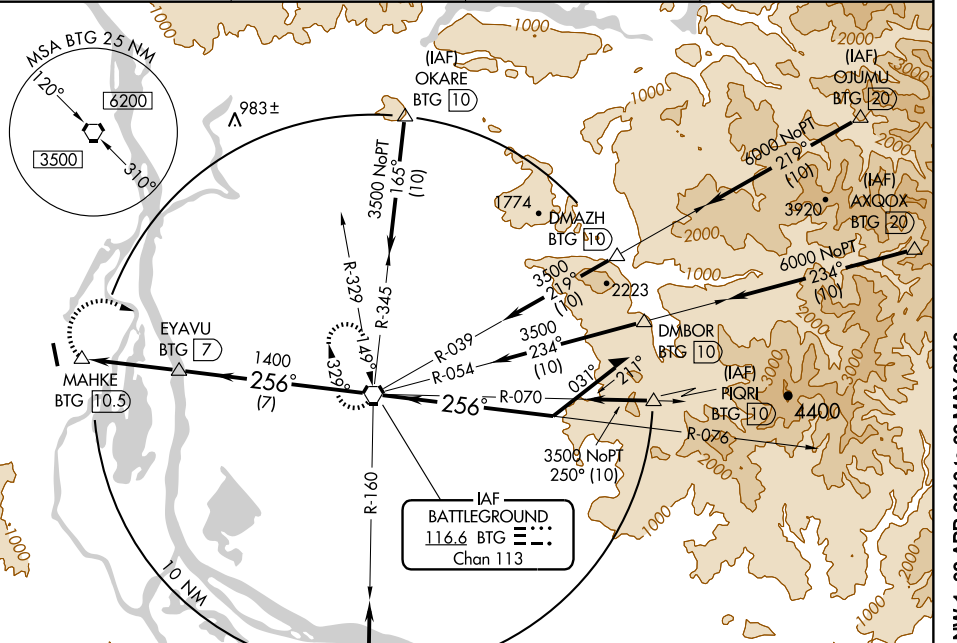
VORTAC BTG	APP CRS	Rwy Idg TDZE	N/A
116.6	256°		N/A
Chan 113		Apt Elev	55

▼

▲

MISSED APPROACH: Climbing right turn to 4200 direct BTG VORTAC and hold.

ASOS 135.875	PORTLAND APP CON 124.35 299.2	CLNC DEL 121.65	UNICOM 122.8 (CTAF)
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ELEV 55

51

33

5100 x 100

0.5% up

256° 4.3 NM from FAF

4200

BTG

116.6

MAHKE BTG 10.5

EYAVU BTG 7

VORTAC

076°

256°

5600

3500

1400

Remain within 10 NM

0.8

3.5 NM

7 NM

CATEGORY	A	B	C	D
CIRCLING	680-1 625 (700-1)	940-1¼ 885 (900-1¼)	1000-2¾ 945 (1000-2¾)	1260-3 1205 (1300-3)

REIL Rwy 15
MIRL Rwy 15-33

APP CRS
178°

Rwy Idg
4467

TDZE
4162

Apt Elev
4164

RNAV (GPS) RWY 18

SUNRIVER (S21)

GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.

Circling NA at night to Rwy 36.

Obtain local altimeter setting on CTAF; when not received, use Redmond altimeter setting.

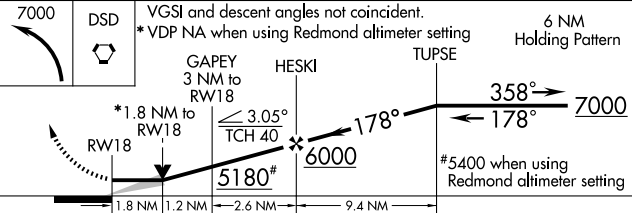
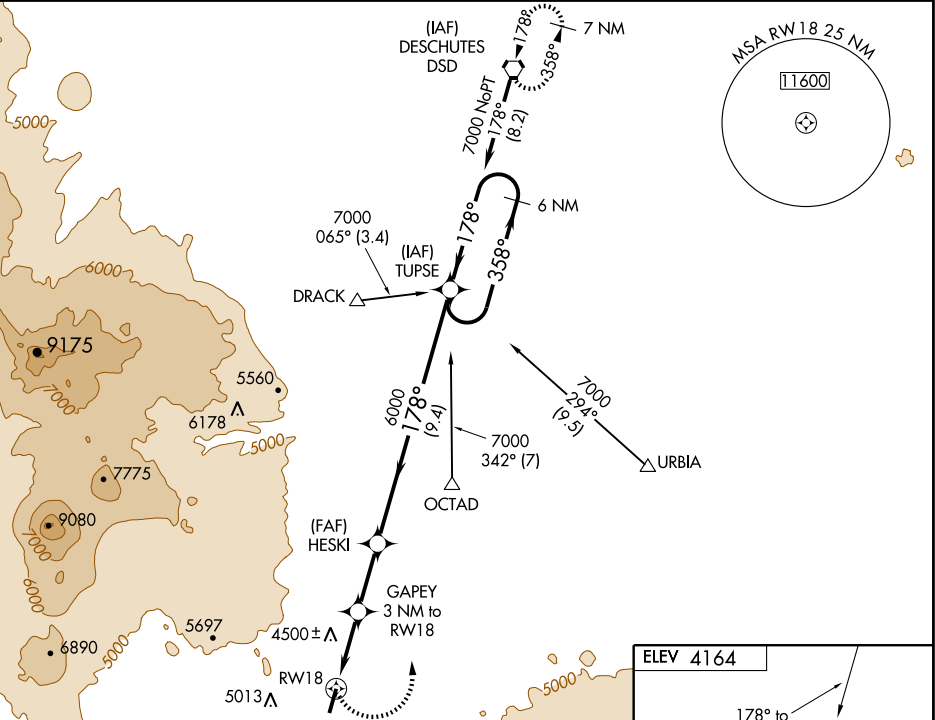
MISSED APPROACH: Climbing left turn to 7000 direct DSD VORTAC and hold.

SEATTLE CENTER

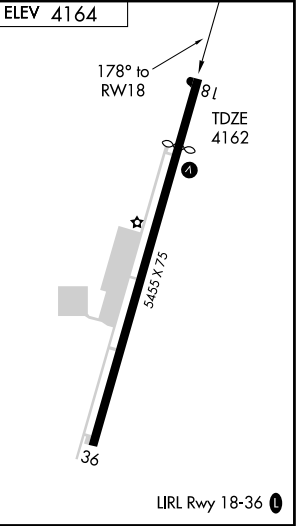
128.15 257.75

UNICOM

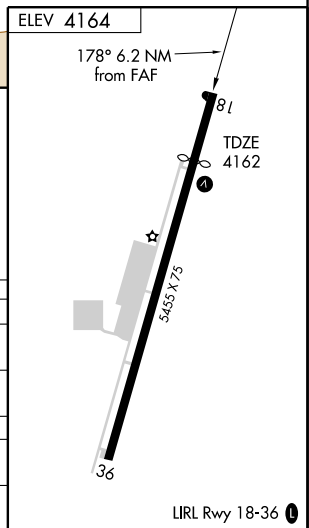
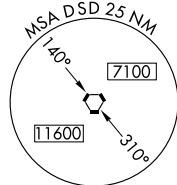
122.8 (CTAF) 1



CATEGORY	A	B	C	D
RNAV MDA	4760-1 598 (600-1)	4760-1½ 598 (600-1½)	4760-2½ 798 (800-2½)	4960-2½ 798 (800-2½)
CIRCLING	4920-1 756 (800-1)	4920-1¼ 756 (800-1¼)	5040-2½ 876 (900-2½)	5380-3 1216 (1300-3)
REDMOND ALTIMETER SETTING MINIMUMS				
RNAV MDA	4980-1 818 (900-1)	4980-1¼ 818 (900-1¼)	4980-2½ 818 (900-2½)	4980-2¾ 818 (900-2¾)
CIRCLING	5140-1¼ 976 (1000-1¼)	5140-1½ 976 (1000-1½)	5260-3 1096 (1100-3)	5580-3 1366 (1400-3)



MISSED APPROACH: Climbing left turn to 7000 via DSD R-178 to DSD VORTAC and hold.

UNICOM
122.8 (CTAF) **L**

	0.1	6.1 NM	6 NM	11 NM	
CATEGORY	A	B	C	D	
S-18	5440-1¼ 1278 (1300-1¼)	5440-1½ 1278 (1300-1½)	5440-3	1278 (1300-3)	
CIRCLING	5440-1¼ 1276 (1300-1¼)	5440-1½ 1276 (1300-1½)	5440-3	1276 (1300-3)	
REDMOND ALTIMETER SETTING MINIMUMS					
S-18	5660-1¼ 1498 (1500-1¼)	5660-1½ 1498 (1500-1½)	5660-3	1498 (1500-3)	
CIRCLING	5660-1¼ 1496 (1500-1¼)	5660-1½ 1496 (1500-1½)	5660-3	1496 (1500-3)	

LOC/DME I-DLS 109.35 Chan 30(Y)	APP CRS 234°	Rwy Idg TDZE Apt Elev	4451 243 247
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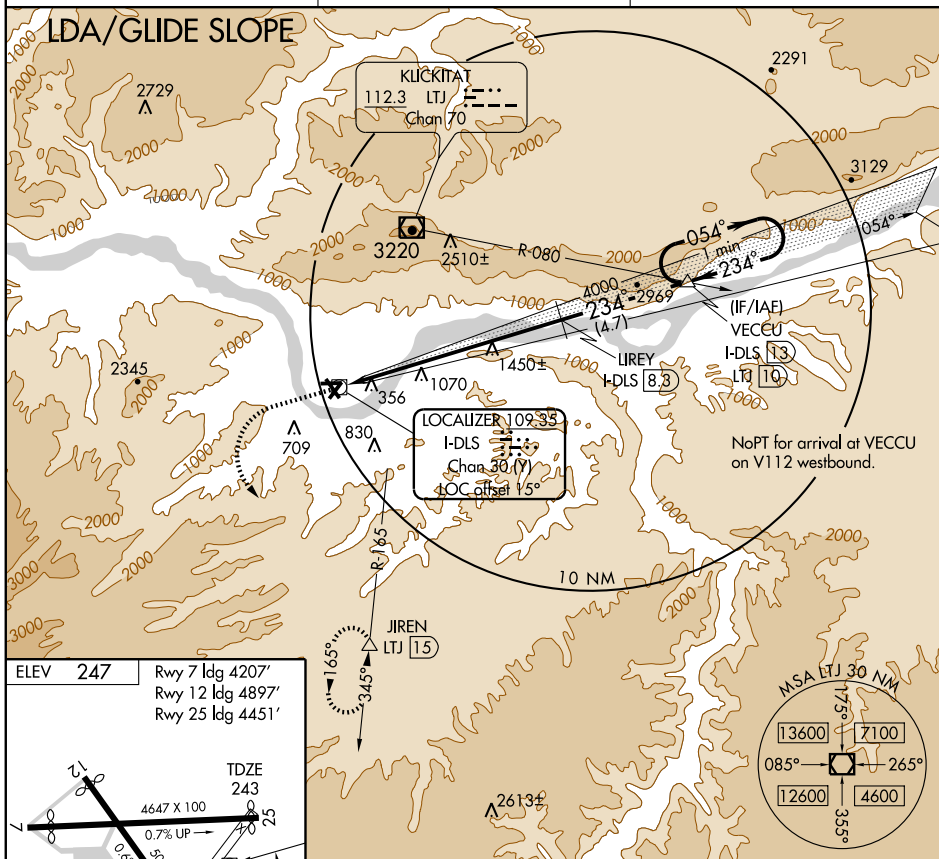
COPTER LDA/DME RWY 25

THE DALLES/COLUMBIA GORGE RGNI/LTHE DALLES MUNI (DLS)

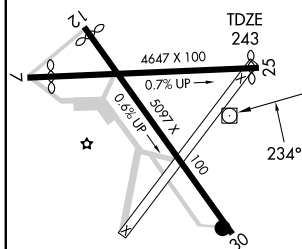
▼ Glide slope provided by standard glide slope equipment.
▲ NA If local altimeter setting not received, procedure NA.

MISSED APPROACH: Climb to 1200 then climbing left turn to 7000 via heading 125° and LTJ VOR/DME R-165 to JIREN/LTJ 15 DME and hold, continue climb-in-hold to 7000.

ASOS 135.175	SEATTLE CENTER 119.65 257.6	UNICOM 123.0 (CTAF) 0
------------------------	---------------------------------------	---------------------------------



ELEV 247	Rwy 7 Idg 4207'
	Rwy 12 Idg 4897'
	Rwy 25 Idg 4451'



REIL Rwy 30 **0**
 MIRL Rws 7-25 and 12-30 **0**

1200	7000	LTJ R-165 112.3	JIREN △	Use I-DLS DME when on the localizer course.
↑	125°			
		LIREY I-DLS [8.3]	VECCU I-DLS [13]	One Minute Holding Pattern
				5300
				GS 4.20° TCH 43
		8.2 NM	4.7 NM	
CATEGORY	COPTER	B	C	D
H-LDA/GS 25	783-1½ 540 (600-1½)		NA	

Knots	60	90	120	150	180
Min:Sec					

LOC/DME I-DLS 109.35 Chan 30(Y)	APP CRS 234°	Rwy Idg TDZE Apt Elev	4451 243 247
---	------------------------	-----------------------------	---

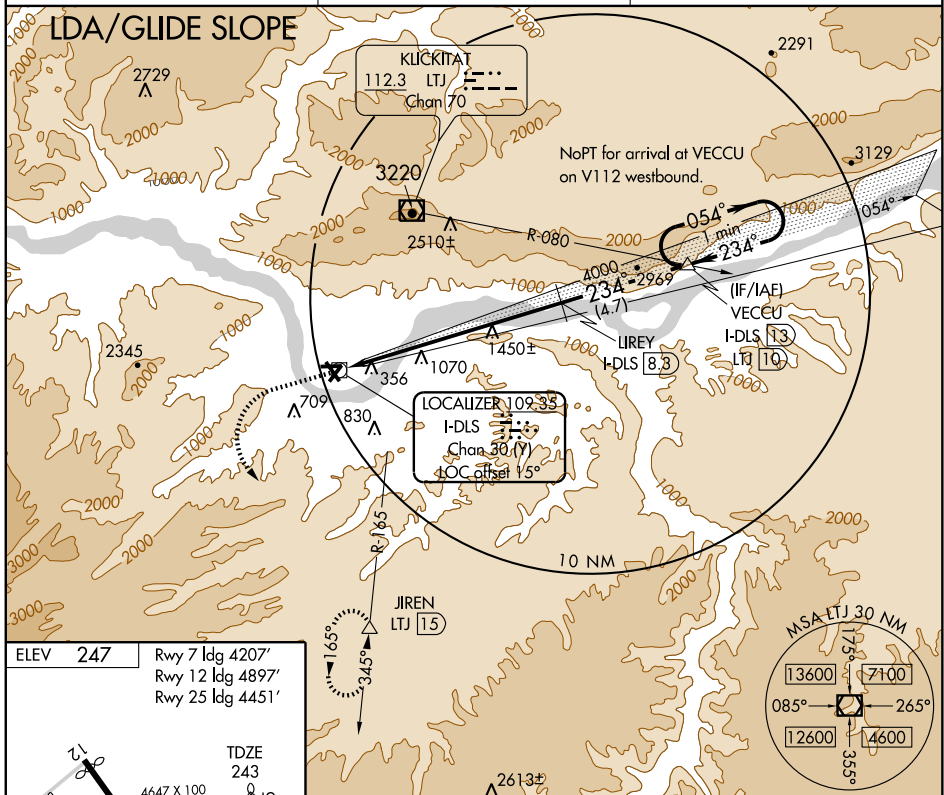
THE DALLES/
COLUMBIA GORGE RGNI/LTHE DALLES MUNI (DLS)

LDA/DME RWY 25

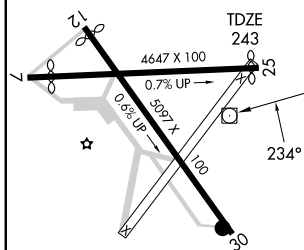
NA Circling requires descent on GS to MDA.
Glide slope provided by standard glide slope equipment.
Visibility reduction by helicopters NA.
If local altimeter setting not received, procedure NA.

MISSED APPROACH: Climb to 1600 then climbing left turn to 7000 via heading 135° and LTJ VOR/DME R-165 to JIREN/LTJ 15 DME and hold, continue climb-in-hold to 7000.

ASOS 135.175	SEATTLE CENTER 119.65 257.6	UNICOM 123.0 (CTAF) 0
------------------------	---------------------------------------	---------------------------------



ELEV 247	Rwy 7 Idg 4207' Rwy 12 Idg 4897' Rwy 25 Idg 4451'
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REIL Rwy 30 0
MIRL Rws 7-25 and 12-30 0

Knots	60	90	120	150	180
Min:Sec					

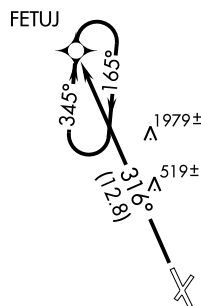
	1600	7000	LTJ R-165 112.3	JIREN △	Use I-DLS DME when on the localizer course.	VECCU I-DLS 13	One Minute Holding Pattern
	↑	↻ 135°					
			LIREY I-DLS 8.3			5300	GS 4.20° TCH 43
			8.2 NM	4.7 NM			
CATEGORY	A	B	C	D			
S-LDA/GS 25	1368-2¾	1125 (1200-2¾)					NA
CIRCLING	1380-3	1133 (1200-3)					NA

SEATTLE CENTER
124.2 317.6
McMINNVILLE RADIO
122.45

CONTIGUOUS U. S. ADIZ

W-570

W-570



NOTE: 1. GPS required
2. RNAV 1

NOTE: Rwy 31: 2000-3 or standard with minimum climb
of 350' per NM to 4500'.
Rwys 1, 13, and 19 not authorized for this
Departure Procedure.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 31: Climb to 5000 via 316° course to FETUJ WP.

Northbound aircraft continue on course to assigned altitude.

Southbound aircraft continue climb in FETUJ WP holding pattern (south, right turn, 345° inbound) to MEA for assigned route before proceeding on course.

APP CRS	Rwy Idg	5001
136°	TDZE	28
	Apt Elev	36

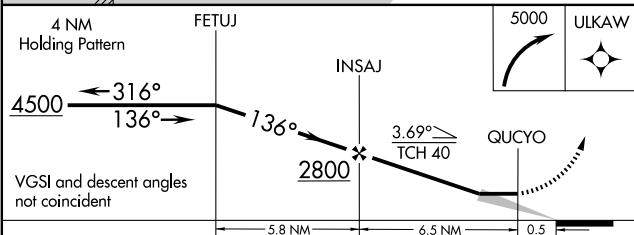
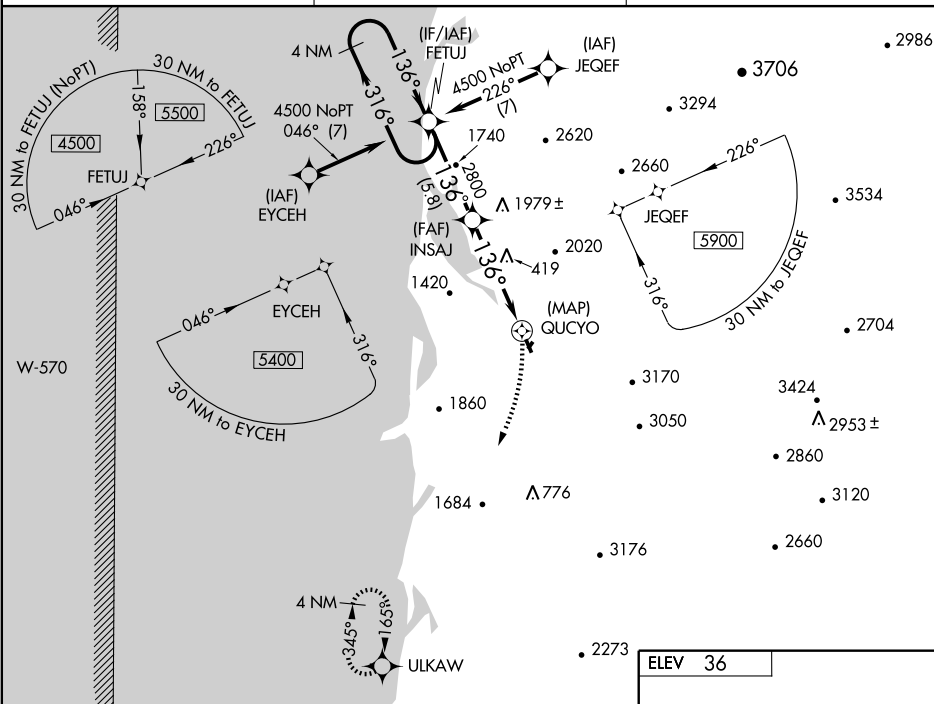
RNAV (GPS) RWY 13
TILLAMOOK (TMK)

T When local altimeter setting not received, use Astoria altimeter setting.
A NA GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.
 Circling NA Rwy 1-19 at night.

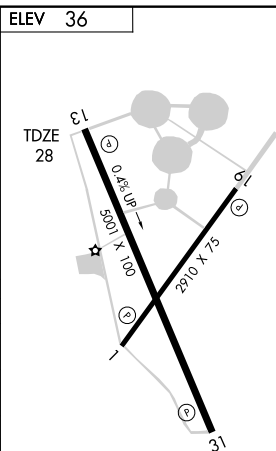
MISSED APPROACH: Climbing right turn to 5000 direct ULKAW WP and hold.

AWOS-3
120.0

SEATTLE CENTER
124.2 317.6

UNICOM
122.8 (CTAF) **L**

CATEGORY	A	B	C	D
LNAV MDA	760-1	732 (800-1)	760-2 732 (800-2)	NA
CIRCLING	880-1 844 (900-1)	920-1¼ 884 (900-1¼)	920-2¾ 884 (900-2¾)	NA
ASTORIA ALTIMETER SETTING MINIMUMS				
LNAV MDA	1280-1¼ 1252 (1300-1¼)	1280-1½ 1252 (1300-1½)	1280-3 1252 (1300-3)	NA
CIRCLING	1420-1¼ 1384 (1400-1¼)	1460-1½ 1424 (1500-1½)	1460-3 1424 (1500-3)	NA



REIL Rwy 13
MIRL Rwy 1-19 and 13-31 **L**

INSTRUMENT APPROACH PROCEDURE CHARTS

A IFR ALTERNATE AIRPORT MINIMUMS

Standard alternate minimums for non precision approaches are 800-2 (NDB, VOR, LOC, TACAN, LDA, VORTAC, VOR/DME, ASR or WAAS LNAV); for precision approaches 600-2 (ILS or PAR). Airports within this geographical area that require alternate minimums other than standard or alternate minimums with restrictions are listed below. NA - means alternate minimums are not authorized due to unmonitored facility or absence of weather reporting service. Civil pilots see FAR 91. IFR Alternate Airport Minimums: Ceiling and Visibility Minimums not applicable to USA/USN/USAF. Pilots must review the IFR Alternate Airport Minimums Notes for alternate airfield suitability.

NAME ALTERNATE MINIMUMS

ALBANY, OR

ALBANY MUNI **VOR/DME or GPS-A**
NA except for operators with approved weather reporting service.

ARLINGTON, WA

ARLINGTON MUNI **NDB or GPS Rwy 34**
Category D, 800-2½.
NA when Paine Field control tower closed.

ASTORIA, OR

ASTORIA RGNL **RNAV (GPS) Rwy 26¹²**
VOR Rwy 8³

- ¹NA when local weather not available.
²Categories A, B, 900-2; Category C, 900-2½;
Category D, 900-3.
³Category C, 800-2½; Category D, 900-3.

AURORA, OR

AURORA STATE **LOC Rwy 17¹**
RNAV (GPS) Rwy 17²³
RNAV (GPS) Rwy 35²

- ¹Category D, 800-2½.
²NA when local weather not available.
³Categories A, B, 900-2; Category C, 900-2½;
Category D, 900-2½.

BAKER, MT

BAKER MUNI **NDB Rwy 13¹**
NDB Rwy 31²

- ¹Categories A,B, 1100-2; Categories C,D,
1100-3.
²Categories A,B, 1000-2; Category C, 1000-2½;
Category D, 1000-3.

BAKER CITY, OR

BAKER CITY MUNI **RNAV (GPS) Rwy 13¹²**
VOR-A¹³
VOR/DME Rwy 13²⁴

- ¹NA when local weather not available.
²Category D, 900-2½.
³Categories A,B, 1900-2; Categories C,D,
1900-3.
⁴NA when control zone not in effect.

NAME ALTERNATE MINIMUMS

BELLINGHAM, WA

BELLINGHAM INTL **ILS or LOC Rwy 16**
RNAV (GPS) Rwy 16
NA when local weather not available.

BIG PINEY, WY

MILEY MEMORIAL FIELD **VOR Rwy 31**
Category D, 800-2½.

BILLINGS, MT

BILLINGS LOGAN
INTL **NDB Rwy 10L¹**
RNAV (GPS) Rwy 10L²
RNAV (GPS) Rwy 28R³

- ¹Category D, 800-2½.
²Categories A,B,C,D, 800-2½.
³Categories A,B, 900-2; Categories C,D,
900-3.

BOISE, ID

BOISE AIR TERMINAL(GOWEN
FIELD) **LOC BC Rwy 28L**
RNAV (GPS) Y Rwy 10R
RNAV (GPS) Y Rwy 28L
VOR/DME or TACAN Rwy 10L
VOR/DME or TACAN Rwy 28L
Category E, 1000-3.

BOZEMAN, MT

GALLATIN FIELD **VOR Rwy 12**
Category C, 800-2½; Category D, 800-2½.

BREMERTON, WA

BREMERTON NATIONAL .. **RNAV (GPS) Rwy 1**
RNAV (GPS) Rwy 19¹
NA when local weather not available.

- ¹Categories A,B, 1200-2; Categories C,D,
1200-3.

NAME ALTERNATE MINIMUMS

BUFFALO, WY

JOHNSON COUNTY **RNAV (GPS) Rwy 31¹**
VOR/DME Rwy 31²

NA when local weather not available.

¹Category D, 800-2½.

²Category C, 800-2½; Category D, 800-2½.

BURLEY, ID

BURLEY MUNI **VOR-A**
VOR/DME-B

NA when local weather not received.

BURLINGTON/MOUNT VERNON, WA

SKAGIT RGNL **NDB Rwy 10¹**
RNAV (GPS) Rwy 10
RNAV (GPS) Rwy 28

NA when local weather not available.

¹Categories A,B, 1300-2; Categories C,D, 1300-3.

BURNS, OR

BURNS MUNI **VOR Rwy 30**
Categories A, B, 1400-2; Categories C,D, 1400-3.

BUTTE, MT

BERT MOONEY **ILS Y Rwy 15¹**
LOC/DME Rwy 15²
RNAV (GPS) Y Rwy 15³
RNAV (GPS) Z Rwy 15,1200-2
VOR or GPS-B,1400-3
VOR/DME or GPS-A,3000-3

¹Categories A, B, C, 1200-4.

²Categories A,B, 1300-2; Categories C,D, 1300-3.

³Categories A,B, 1500-2; Categories C,D, 1500-3.

CALDWELL, ID

CALDWELL
INDUSTRIAL **RNAV (GPS) Rwy 12**
RNAV (GPS) Rwy 30

NA when local weather not available.

CASPER, WY

CASPER/NATRONA
COUNTY INTL **ILS or LOC Rwy 3**
ILS, Categories A,B, 800-2; Category C 800-2½; Category D, 800-2½; Category E, 900-3.
LOC, Category C, 800-2½; Category D, 800-2½; Category E, 900-3.

NAME ALTERNATE MINIMUMS

CHEYENNE, WY

CHEYENNE RGNL/JERRY OLSON
FIELD **ILS or LOC Rwy 27¹**
NDB Rwy 27¹
RNAV (GPS) Rwy 9²
RNAV (GPS) Rwy 13²
RNAV (GPS) Rwy 31²

¹NA when control tower closed.

²NA when local weather not available.

CODY, WY

YELLOWSTONE
REGIONAL **RNAV (GPS) Rwy 22¹**
VOR or GPS-A²

¹Category C, 800-2½; Category D, 200-2½.

²Category D, 900-3.

COEUR D'ALENE, ID

COEUR D'ALENE-PAPPY
BOYINGTON FIELD **ILS or LOC/DME Rwy 5**
NDB Rwy 5
RNAV (GPS) Rwy 5
VOR Rwy 5
VOR/DME Rwy 1

NA when local weather not available.

CORVALLIS, OR

CORVALLIS MUNI **VOR-A**
Categories A,B,1200-2; Categories C,D, 1200-3.

DEER PARK, WA

DEER PARK **RNAV (GPS) Rwy 34**
NA when local weather not available.

DILLON, MT

DILLON **VOR or GPS-A,1500-3**
VOR/DME or GPS-B
NA when Dillon altimeter setting not available.

DOUGLAS, WY

CONVERSE COUNTY **VOR Rwy 29**
Categories A,B, 1100-2; Categories C,D, 1100-3. DME standard.

EASTSOUND, WA

ORCAS ISLAND **RNAV (GPS)-A**
Categories A, B, 1100-2.
NA when local weather not available.

ELLENSBURG, WA

BOWERS FIELD **RNAV (GPS) Rwy 25¹**
RNAV (GPS) Rwy 29
VOR-B²

NA when local weather not available.

¹Category D, 800-2½.

²Category A, 1500-2.

NAME ALTERNATE MINIMUMS

EPHRATA, WA

EPHRATA MUNI **RNAV (GPS) Rwy 3¹**
RNAV (GPS) Rwy 21²
VOR/DME Rwy 3¹
VOR Rwy 21¹

NA when local weather not available.

¹Category D, 1300-3.

²Category C, 800-2¼; Category D, 1300-3.

EUGENE, OR

MAHLON-SWEET

FIELD **ILS or LOC/DME Z Rwy 16R¹**
ILS or LOC Y Rwy 16R¹
ILS or LOC/DME Rwy 16L¹²
RNAV (GPS) Rwy 34R²
VOR or GPS-A³

¹NA when control tower closed.

²NA when local weather not available.

³Categories A,B, 900-2; Category C, 900-2¼;
 Category D, 900-2¾.

EVANSTON, WY

EVANSTON-UINTA COUNTY

BURNS FIELD **ILS or LOC/DME Rwy 23**
 Categories C,D, 700-2.

EVERETT, WA

SNOHOMISH COUNTY(PAINE

FIELD) **ILS or LOC/DME Rwy 16R**
 NA when control tower closed.
 NA when local weather not available.

FORT BENTON, MT

FORT BENTON **RNAV (GPS) Rwy 23**
 NA when local weather not available.

GILLETTE, WY

GILLETTE-CAMPBELL

COUNTY **ILS or LOC Rwy 34¹²**
RNAV (GPS) Rwy 16³
RNAV (GPS) Rwy 34⁴
VOR/DME Rwy 16⁵
VOR/DME Rwy 34¹

¹Categories A,B, 900-2; Category C, 900-2¼;
 Category D, 1000-3.

²NA when control tower closed.

³Categories A,B,C, 800-2¼; Category D,
 1000-3.

⁴Categories A,B,C,D, 1200-4.

⁵Category C, 800-2¼; Category D, 1000-3.

GLASGOW, MT

WOKAL FIELD/

GLASGOW INTL **VOR Rwy 12**
 Categories A,B, 900-2; Categories C,D, 900-3.
 VOR/DME standard.

NAME ALTERNATE MINIMUMS

GLENDIVE, MT

DAWSON

COMMUNITY **NDB or GPS Rwy 12,900-2¼**

GOODING, ID

GOODING MUNI **RNAV (GPS) Rwy 7**
RNAV (GPS) Rwy 25

NA when local weather not available.

GRAY AAF (KGRF)

FORT LEWIS, WA **NDB Rwy 15**
NDB Rwy 33
ILS or LOC Rwy 15
COPTER NDB Rwy 15

NA when control tower closed.

GREAT FALLS, MT

GREAT FALLS INTL **NDB Rwy 34**
 Category D, 800-2¼.

GREYBULL, WY

SOUTH BIG HORN COUNTY **RNAV (GPS)-A**
RNAV (GPS) Rwy 33¹

NA when local weather not available.

¹Category D, 1200-3.

HAILEY, ID

FRIEDMAN

MEMORIAL **RNAV (GPS) W Rwy 31**
 Categories A,B, 1900-2; Category C, 1900-3.

HAVRE, MT

HAVRE CITY-COUNTY **VOR Rwy 26**
 Categories A, B, 900-2; Category C, 900-2¾;
 Category D, 900-3.

NAME ALTERNATE MINIMUMS

HELENA, MT

HELENA RGNL **ILS or LOC Y Rwy 27¹²**
ILS or LOC Z Rwy 27¹²
LOC/DME BC-C¹³
NDB-D¹⁴
RNAV (GPS) Y Rwy 9⁵
RNAV (GPS) Rwy 23⁶
RNAV (GPS) X Rwy 27⁵
RNAV (RNP) Z Rwy 9⁷
RNAV (RNP) Y Rwy 27⁷
RNAV (RNP) Z Rwy 27^{7,9}
VOR-A⁸
VOR/DME-B⁸

¹NA when control tower closed.

²Categories A, B, 1600-2; Categories C, D, E, 1600-3.

³Categories A, B, 1300-2; Categories C, D, 1300-3.

⁴Category A, 1200-2.

⁵Categories A, B, 1600-2; Categories C, D, 1600-3.

⁶Categories A, B, 900-2; Category C, 900-2½; Category D, 900-3.

⁷NA when local weather not available.

⁸Categories A, B, 2900-2; Categories C, D, 2900-3.

⁹1000-4.

HOQUIAM, WA

BOWERMAN **RNAV (GPS) Rwy 24¹**
VOR/DME Rwy 24²
VOR Rwy 6¹

¹Category D, 800-2¼.

²Categories A,B, 900-2; Category C, 900-2¾; Category D, 900-3.

IDAHO FALLS, ID

IDAHO FALLS RGNL **ILS or LOC Rwy 20¹**
LOC BC Rwy 2²
RNAV (GPS) Rwy 20³
VOR Rwy 20³

¹ILS, Category E, 700-2½. LOC, Category E, 800-2½.

²Category E, 800-2½.

³NA when local weather not available.

JACKSON, WY

JACKSON HOLE **RNAV (GPS) X Rwy 1¹**
RNAV (GPS) Y Rwy 19¹
RNAV (RNP) Y Rwy 1, 10681200-4
VOR/DME Rwy 1²
VOR/DME Rwy 19³

¹Categories A,B, 1200-2; Categories C,D, 1200-3.

²Categories A,B,1000-2; Categories C,D, 1000-3.

³Categories A,B,1400-2; Categories C,D, 1400-3.

NAME ALTERNATE MINIMUMS

JEROME, ID

JEROME COUNTY **RNAV (GPS) Rwy 9**
RNAV (GPS) Rwy 27¹
VOR/DME-A

NA when local weather not available.

¹Categories A, B, 1300-2; Categories C, D, 1300-3.

JOHN DAY, OR

GRANT COUNTY RGNL/
OGILVIE FIELD **RNAV (GPS) Y Rwy 9**
Category B, 900-2; Category C, 900-2½.

KALISPELL, MT

GLACIER PARK INTL **ILS or LOC Rwy 2¹**
RNAV (RNP) Y Rwy 2²
RNAV (RNP) Rwy 20, 800-2½²

¹Categories C, D, 700-2.

²NA when local weather not available.

KELSO, WA

SOUTHWEST
WASHINGTON RGNL **RNAV (GPS) Rwy 12**
Categories A, B, 900-2.

KLAMATH FALLS, OR

KLAMATH FALLS **ILS or LOC Rwy 32¹**
RNAV (GPS) Rwy 14²
VOR/DME or TACAN Rwy 14³
VOR/DME or TACAN Rwy 32⁴
VOR or GPS-B, 2100-3

¹Categories A,B, 900-2; Category C, 900-2¾; Category D, 1000-3. LOC, DME required.

²Categories A,B, 900-2; Category C, 900-2¾; Category D, 1000-3.

³Categories C,D, 1000-3; Category E, NA.

⁴Category B, 900-2; Categories C,D, 1000-3; Category E, 1500-3.

LAKEVIEW, OR

LAKE COUNTY **VOR/DME-A**
Categories A,B, 900-2; Category C, 900-2½; Category D, 900-2¾.

LEWISTON, ID

LEWISTON-NEZ PERCE
COUNTY **ILS Rwy 26¹²**
RNAV (GPS) Rwy 9³
RNAV (GPS) Rwy 12³
RNAV (GPS) Rwy 26³
VOR Rwy 8⁴
VOR Rwy 26³

¹ILS, Category D, 800-2¼.

²NA when control tower closed.

³Category D, 800-2¼.

⁴Categories A, B, 1100-2; Categories C, D, 1100-3.

NAME ALTERNATE MINIMUMS

LEWISTOWN, MT

LEWISTOWN MUNI RNAV (GPS) Rwy 7
VOR Rwy 7

Category D, 800-2½.

LIVINGSTON, MT

MISSION FIELD VOR/DME-B¹
VOR-A²

¹Categories A, B, 900-2; Category C, 900-2½;
Category D, 1000-3.

²Categories A, B, 2200-2; Categories C, D,
2200-3.

MC CALL, ID

MC CALL MUNI RNAV (GPS) Rwy 16¹
RNAV (GPS) Y Rwy 34²
RNAV (GPS) Z Rwy 34³⁴

¹Category C, 900-2½.

²Categories A, B, 1600-2; Categories C, D,
1600-3.

³NA when local weather not available.

⁴Category C, 900-2½; Category D, 1000-3.

MC MINNVILLE, OR

MC MINNVILLE MUNI ILS or LOC Rwy 22
RNAV (GPS) Rwy 4
RNAV (GPS) Rwy 22
VOR/DME-B

NA when local weather not available.

Category D 800-2½.

MEDFORD, OR

ROGUE VALLEY INTL-
MEDFORD ILS or LOC/DME Rwy 14¹²
LOC/DME BC-B²³
RNAV (GPS)-D³
RNAV (GPS) Rwy 14⁴
VOR-A⁵
VOR/DME-C³
VOR/DME Rwy 14⁵

¹ILS, Categories A, B, C, 700-2; Category D,
900-2½. LOC, Category D, 900-2½.

²NA when control tower closed.

³Categories A, B, 2300-2; Categories C, D,
2300-3.

⁴Categories A, B, 1100-2; Categories C, D,
1100-3.

⁵Categories A, B, 1400-2; Category C, D
1400-3.

NAME ALTERNATE MINIMUMS

MISSOULA, MT

MISSOULA INTL ILS Rwy 11¹
RNAV (GPS) Y Rwy 11²³
RNAV (RNP) Z Rwy 11²,800-2½
VOR/DME or GPS-A,2000-3
VOR/DME or GPS-B,2000-3

¹ILS, 1600-6. LOC,NA.

²NA when local weather not available.

³Categories A, B, 1900-2; Categories C, D,
1900-3.

MOSES LAKE, WA

GRANT COUNTY INTL ... ILS or LOC Rwy 32R¹
NDB Rwy 32R²
RNAV (GPS) Rwy 4¹
RNAV (GPS) Rwy 14L¹
RNAV (GPS) Rwy 22¹
VOR Rwy 4²
VOR -1 Rwy 14L²
VOR -3 Rwy 14L²
VOR Rwy 22²
VOR Rwy 32R²

¹NA when local weather not available.

²NA when control tower closed.

NEWCASTLE, WY

MONDELL FIELD VOR or GPS Rwy 31
NA except for operators with approved weather
reporting service.
Categories A,B, 900-2;Categories C,D, 900-3.

NORTH BEND, OR

SOUTHWEST OREGON
RGNL ILS or LOC Rwy 4¹
NDB or GPS Rwy 4²
VOR or GPS-A³
VOR/DME or GPS-B⁴
VOR/DME Rwy 4⁴

¹ILS,Categories A,B, 800-2; Category C, 900-
2½, Category D,1000-3. LOC, Category C,
900-2½, Category D,1000-3.

²Category C, 900-2½;Category D, 1000-3.

³Categories A,B, 1100-2; Categories C,D,
1100-3.

⁴Categories C,D, 1000-3.

OAK HARBOR, WA

AJ EISENBERG RNAV (GPS) Rwy 7
NA when local weather not available.

OLYMPIA, WA

OLYMPIA RGNL ILS or LOC Rwy 17¹²³
RNAV (GPS) Rwy 17²
RNAV (GPS) Rwy 35²
VOR-A²⁴
VOR/DME Rwy 35²

¹ILS, Categories C, D, 700-2.

²NA when local weather not available.



NAME ALTERNATE MINIMUMS
ONTARIO, OR
 ONTARIO MUNI RNAV (GPS) Rwy 14
 RNAV (GPS) Rwy 32
 NA when local weather not available.

PASCO, WA
 TRI-CITIES ILS or LOC Rwy 21R¹²
 RNAV (GPS) Rwy 3L
 RNAV (GPS) Rwy 12
 RNAV (GPS) Rwy 21R
 RNAV (GPS) Rwy 30
 VOR Rwy 21R³
 VOR/DME Rwy 30
 NA when local weather not available.

- ¹NA when control tower closed.
²ILS, Categories A,B,C, 700-2; Category D, 700-2½. LOC, Category D, 800-2½.
³Category D, 800-2½.

PENDLETON, OR
 EASTERN OREGON RGNL AT
 PENDLETON ILS or LOC/DME Rwy 25¹
 RNAV (GPS) Rwy 7
 RNAV (GPS) Rwy 11
 RNAV (GPS) Rwy 25
 RNAV (GPS) Rwy 29
 VOR Rwy 7
 NA when local weather not available.
¹ILS, NA when control tower closed.

PINEDALE, WY
 PINEDALE/RALPH WENZ
 FIELD NDB-A¹
 RNAV (GPS) Rwy 11²
 RNAV (GPS) Rwy 29²
 NA when local weather not available.
¹Category C, 800-2½; Category D, 800-2½.
²Category D, 800-2½.

POCATELLO, ID
 POCATELLO RGNL ILS or LOC Rwy 21¹
 RNAV (GPS) Rwy 3²
 RNAV (GPS) Rwy 21²
 NA when control zone not in effect.
²NA when local weather not available.

PORT ANGELES, WA
 WILLIAM R
 FAIRCHILD INTL ILS or LOC Rwy 8
 RNAV (GPS) Rwy 8¹
 RNAV (GPS) Rwy 26
 NA when local weather not available.
¹Categories A, B, 1000-2; Categories C, D, 1000-3.

NAME ALTERNATE MINIMUMS
PORTLAND, OR
 PORTLAND INTL ILS or LOC Rwy 10L¹
 ILS or LOC Rwy 10R²
 ILS or LOC Rwy 28L³
 ILS or LOC Rwy 28R⁴
 LOC/DME Rwy 21⁵
 RNAV (GPS) Rwy 10L⁵
 RNAV (GPS) Rwy 10R⁶
 RNAV (GPS) Rwy 12⁷
 RNAV (GPS) Rwy 28L⁸
 RNAV (GPS) Rwy 28R⁹
 VOR/DME Rwy 21⁵
 VOR-A⁹
 VOR Rwy 28R⁵

- ¹ILS, Category A, 700-2; Categories B,C, 800-2; Category D, 1000-3. LOC, Category D, 1000-3.
²Categories A,B, 900-2; Category C, 900-2½; Category D, 1000-3; Category E, 1100-3.
³ILS, Category A, 700-2; Categories B,C, 800-2; Category D, 1000-3; Category E, 1100-3. LOC, Category D, 1000-3; Category E, 1100-3.
⁴ILS, Category A, 700-2; Categories B,C, 800-2; Category D, 1000-3. LOC, Category D, 1000-3.
⁵Category D, 1000-3.
⁶Categories A,B,C 800-5; Category D, 1000-5.
⁷NA when local weather not available.
⁸Category D, 1000-3.
⁹Categories A,B, 900-2; Category C, 900-2½; Category D, 1000-3.

PORTLAND-HILLSBORO .. ILS or LOC Rwy 12¹
 RNAV (GPS) Rwy 12²
¹Categories A,B, 1000-2; Category C, 1000-2½; Category D, 1000-3.
²NA when local weather not available.

PORTLAND-TROUTDALE NDB or GPS-A
 Categories A,B, 1100-2; Category C, 1100-3; Category D, 1300-3.

PULLMAN/MOSCOW, WA
 PULLMAN/MOSCOW
 MUNI RNAV (GPS) Rwy 5,800-2½

RAWLINS, WY
 RAWLINS MUNI/
 HARVEY FIELD RNAV (GPS) Rwy 22¹
 VOR/DME Rwy 22²
¹Categories A, B, 900-2; Category C, 900-2½; Category D, 900-2½.
²Categories A, B, 1000-2; Category C, 1000-2½; Category D, 1000-3.

NAME ALTERNATE MINIMUMS

REDMOND, OR

ROBERTS FIELD **ILS or LOC Rwy 22¹**
VOR/DME Rwy 22²

¹ILS, LOC, Category D, 800-2½; Category E, 800-2½.

²Category A, B, 1000-2; Category C, 1000-2¾; Category D, E, 1000-3.

RENTON, WA

RENTON MUNI **NDB Rwy 16¹**
RNAV (GPS) Y Rwy 16²
RNAV (GPS) Z Rwy 16³

NA when local weather not available.

¹Categories A, B, 1000-2; Categories C, D, 1000-3.

²Categories A, B, 900-2; Category C, 900-2¾; Category D, 900-3.

³Categories A, B, 900-2.

REXBURG, ID

REXBURG-MADISON
COUNTY **RNAV (GPS) Rwy 35**
NA when local weather not available.
Category D, 800-2½.

RICHLAND, WA

RICHLAND **NDB Rwy 19¹**
RNAV (GPS) Rwy 19¹
RNAV (GPS) Rwy 26¹
VOR/DME-A²
VOR Rwy 26¹

¹Category D, 800-2½.

²Categories A, B, 900-2; Category C, 900-2¾; Category D, 900-3.

RIVERTON, WY

RIVERTON RGNL **ILS or LOC Rwy 28**
RNAV (GPS) Rwy 10
RNAV (GPS) Rwy 28
VOR Rwy 10
VOR Rwy 28

NA when local weather not available.

ROCK SPRINGS, WY

ROCK SPRINGS-SWEETWATER
COUNTY **VOR-B**
Category D, 800-2½.

ROSEBURG, OR

ROSEBURG RGNL **RNAV (GPS)-B**
NA when local weather not available.
Categories A, B, 1200-2; Category C, 1200-3;
Category D, 1400-3.

NAME ALTERNATE MINIMUMS

SALEM, OR

MCNARY FIELD **ILS or LOC Rwy 31¹²**
LOC/DME Rwy 31³
RNAV (GPS) Rwy 31¹³

¹NA when local weather not available.

²ILS, Categories A, B, 800-2; Category C, 800-2½; Category D, 800-2½. LOC, Category C, 800-2½; Category D, 800-2½.

³Category D, 800-2½.

SCAPPOOSE, OR

SCAPPOOSE INDUSTRIAL
AIRPARK **VOR/DME or GPS-A**
Category B, 900-2; Category C, 1000-2¾;
Category D 1300-3.

SEATTLE, WA

BOEING FIELD-KING COUNTY
INTL **ILS Rwy 13R¹**
ILS Rwy 31L²
LOC/DME Rwy 13R³
RNAV (GPS) Y Rwy 13R⁴
RNAV (RNP) Z Rwy 13R⁵

¹ILS, Category A, 800-2; Category B, 900-2; Category C, 900-2½; Category D, 1000-3.

²Category A, 800-2; Category B, 900-2; Category C, 900-2½; Category D, 1000-3.

³Category B, 900-2; Category C, 900-2½; Category D, 1000-3.

⁴Category B, 900-2; Category C, 900-2¾; Category D, 1000-3.

⁵Categories A, B, C, D, 800-2½.

SHERIDAN, WY

SHERIDAN
COUNTY **ILS or LOC/DME Rwy 32**
RNAV (GPS) Rwy 14
RNAV (GPS) Rwy 32
VOR Rwy 14

NA when local weather not received.
Category D, 800-2½.

SIDNEY, MT

SIDNEY-RICHLAND MUNI **NDB Rwy 1¹**
NDB Rwy 19²

¹Category D, 800-2½.

²Categories C, D, 800-2½.

NAME ALTERNATE MINIMUMS

SPOKANE, WA

FELTS FIELD **ILS/DME Rwy 21R¹**
RNAV (GPS)-A²
RNAV (GPS) Rwy 3L²
VOR Rwy 3L^{3,4}

- ¹Categories A,B, 1000-2; Category C, 1000-2½.
²Categories A,B, 1000-2; Category C, 1000-2½; Category D, 1000-3.
³Categories A, B, 1000-2; Categories C, D, 1000-3.
⁴NA when local weather not available.

SPOKANE INTL **ILS or LOC Rwy 3¹**
ILS or LOC/DME Rwy 21¹
VOR Rwy 3²

- ¹ILS, Category D, 700-2.
²Category E, 800-2½.

TACOMA, WA

TACOMA NARROWS **ILS Rwy 17¹**
NDB Rwy 35¹
RNAV (GPS) Rwy 17^{1,2}
RNAV (GPS) Rwy 35^{2,3}

- ¹NA when control tower closed.
²Category D, 800-2½.
³NA when local weather not available.

THE DALLES, OR

COLUMBIA GEORGE RGNL/
THE DALLES MUNI **RNAV (GPS)-A**
Categories A,B, 1100-2; Category C, 1100-3;
Category D, 1200-3.

TWIN FALLS, ID

JOSLIN FIELD-MAGIC VALLEY
RGNL **ILS or LOC Rwy 25¹**
NDB Rwy 25
RNAV (GPS) Rwy 7
RNAV (GPS) Rwy 25
VOR Rwy 7²

- NA when local weather not available.
¹ILS, Category D, 700-2; Category E, 900-3.
LOC, Category E, 900-3.
²Category C, 800-2½; Category D, 800-2½.

WALLA WALLA, WA

WALLA WALLA RGNL **ILS or LOC Rwy 20¹**
NDB Rwy 20, 1000-3
RNAV (GPS) Rwy 2^{2,3}
RNAV (GPS) Rwy 16²
RNAV (GPS) Rwy 20²
VOR/DME Rwy 2²

- ¹ILS, LOC, Categories A,B, 1100-2; Categories C, D, 1100-3.
²Category D, 800-2½.
³NA when local weather not available.

NAME ALTERNATE MINIMUMS

WENATCHEE, WA

PANGBORN
MEMORIAL **ILS Y Rwy 12, 1300-4**
VOR/DME-C^{1,2}
VOR/DME-A³

- ¹NA when local weather not available.
²Categories A, B, 1500-2; Categories C, D, 1500-3.
³Categories A, B, 2000-2; Categories C, D, 2000-3.

WOLF POINT, MT

L.M. CLAYTON **RNAV (GPS) Rwy 11**
RNAV (GPS) Rwy 29

NA when local weather not available.

WORLAND, WY

WORLAND MUNI **VOR or GPS Rwy 16**
Categories C,D, 800-2½.

YAKIMA, WA

YAKIMA AIR TERMINAL/
MCALLISTER FIELD **ILS Y Rwy 27^{1,2}**
ILS Z Rwy 27^{1,3}
LOC/DME BC-B^{1,4}
RNAV (GPS) Y Rwy 27⁵
RNAV (GPS) Z Rwy 27⁴
VOR/DME or TACAN Rwy 27⁶
VOR-A⁷

- ¹NA when control tower closed.
²ILS, Categories A, B, 600-2½; Category C, 700-2½; Category D, 800-2½.
³Category C, 700-2; Category D, 800-2½
⁴Category D, 800-2½.
⁵Category C, 800-2½; Category D, 800-2½.
⁶Categories A, B, 1100-2; Categories C, D, 1100-3.
⁷Category C, 800-2½; Category D, 800-2½.

RADAR INSTRUMENT APPROACH MINIMUMS

CHEYENNE, WY

Amdt 1B, MAY 8, 2008 (FAA)

ELEV 6159

CHEYENNE RGNL/JERRY OLSON FIELD



RADAR - 124.55 263.075   NA

				DA/ MDA-VIS	HAT/ HATH/ HAA CEIL-VIS		DA/ MDA-VIS	HAT/ HATH/ HAA CEIL-VIS
PAR	27	3.0°/55/918	ABCDE	6321/24	200 (200-½)			
ASR	9		ABC	6500-1	357 (400-1)	DE	6500-1¼	357 (400-1¼)
	27		ABC	6520/24	399 (400-½)	DE	6520/50	399 (400-1)
CIR	ALL		AB	6660-1	501 (600-1)	C	6660-1½	501 (600-1½)
			D	6720-2	561 (600-2)	E	6960-2¾	801 (900-2¾)

For inoperative MALSR increase, PAR 27 category E visibility to RVR 4000, ASR 27 category D visibility to RVR 6000 and ASR 27 category E visibility to 1½. PAR not available when ASR out of service.

GRAY AAF (KGRF), FORT LEWIS, WA (Amdt 1 10098 USA)

ELEV 300

RADAR - (E) 128.2 139.925 239.0 317.4   NA

	RWY	GS/TCH/RPI	CAT	DH/ MDA-VIS	HAT/ HATH/ HAA	CEIL-VIS
PAR ¹³	15	3.0°/55/853	ABCD	499/24	200	(200-½)
	33 ²	3.0°/39/730	ABCD	500-½	200	(200-½)

¹Opr Mon-Fri 1600-0759Z++, exc federal holidays. POC DSN 357-4953 or C253-967-4953. Svc incl PAR and apch mnt of ILS and NDB. ²PAR not authorized when R6703D is active. ³Circling not authorized.

OPS 138.6

Contact Seattle approach for vectors to Final on 120.1 290.9

Missed Approach:

Rwy 15: Climb to 1000, then climbing left turn to 2000 via heading 270° for RADAR vectors; or when directed by ATC, climb to 1000, then climbing left turn to 2000 direct GRF NDB and hold NW, RT, 147° inbound (ADF REQUIRED).

Rwy 33: Climb to 1000, then climbing left turn to 2000 via heading 270° for RADAR vectors; or when directed by ATC, climb to 2000 direct GRF NDB and hold NW, RT, 147° inbound (ADF REQUIRED). LOST COMMUNICATIONS (ALL RWYS): As directed by ATC on initial contact.

RADAR INSTRUMENT APPROACH MINIMUMS**OAK HARBOR (OKH), WA**

Amdt 1A, Mar 12, 2009 (FAA)

ELEV 193**A J EISENBERG****RADAR - 118.2 285.65 ▽ ▲ NA**

	<u>RWY</u>	<u>GS/TCH/RPI</u>	<u>CAT</u>	<u>DA/ MDA-VIS</u>	<u>HAT/ HATH/ HAA</u>	<u>CEIL-VIS</u>
ASR	7		AB CD	620-1 NA	427	(500-1)
CIR	All Rwy		A B CD	620-1 660-1 NA	427 467	(500-1) (500-1)

When local altimeter setting not received, use Whidbey Island NAS altimeter setting and increase all MDAs 40 feet. Circling north of Rwy 7-25 NA at night. Visibility reduction by helicopters NA.

RADAR INSTRUMENT APPROACH MINIMUMS

WHIDBEY ISLAND NAS (KNUW), (AULT FLD) WA (09071 USN)

ELEV 47

RADAR - (E) 126.05x 126.85x 266.8x 299.6x 310.8x 322.5x 327.0x 343.75x ▽

	<u>RWY</u>	<u>GS/TCH/RPI</u>	<u>CAT</u>	<u>DH/</u> <u>MDA-VIS</u>	<u>HAT/</u> <u>HATH/</u> <u>HAA</u>	<u>CEIL-VIS</u>
PAR ¹	25 ^{2 3 10}	3.0°/40/718	ABCDE	228-½	200	(200-½)
	14 ^{5 11}	3.0°/49/947	ABCDE	139-¼	100	(100-¼)
	7	3.0°/50/961	ABCDE	125-½	100	(100-½)
	32 ^{2 10}	3.0°/34/776	ABCDE	147-¼	100	(100-¼)
W/O GS	25 ^{3 6}		ABC	480-¾	452	(500-¾)
			DE	480-1	452	(500-1)
	14 ^{7 11}		AB	340-½	301	(300-½)
			CDE	340-¾	301	(300-¾)
	7		ABCDE	300-1	275	(300-1)
	32 ^{8 10}		ABC	500-¾	453	(500-¾)
			DE	500-1	453	(500-1)
ASR	7		AB	440-1	415	(400-1)
			CD	440-1¼	415	(400-1¼)
			E	440-1½	415	(400-1½)
	14 ^{4 11}		AB	600-½	561	(600-½)
			C	600-1	561	(600-1)
			D	600-1¼	561	(600-1¼)
			E	600-1½	561	(600-1½)
	32 ^{8 11}		AB	680-½	633	(700-½)
			C	680-1¼	633	(700-1¼)
			D	680-1½	633	(700-1½)
			E	680-1¾	633	(700-1¾)
	25 ⁴		AB	760-½	732	(800-½)
			C	760-1½	732	(800-1½)
			D	760-1¾	732	(800-1¾)
			E	760-2	732	(800-2)
CIR ⁹			A	780-1	733	(800-1)
			B	800-1¼	753	(800-1¼)
			C	800-2¼	753	(800-2¼)
			D	860-2¾	813	(900-2¾)
			E	1100-3	1053	(1100-3)

¹No-NOTAM MP: PAR 1600-0800Z++ Mon. ²When ALS inop, increase vis CAT ABCDE to ¾ mile.

³Caution: Trees 265' MSL, 3270' from THLD, 1647' right of RCL. ⁴When ALS inop, increase vis CAT AB to 1 mile, CAT C to 1¼ miles, CAT D to 2 miles, CAT E to 2¼ miles. ⁵When ALS inop, increase CAT ABCDE vis to ½ mile. ⁶When ALS inop, increase vis CAT ABC to 1¼ miles, CAT DE to 1½ miles. ⁷When ALS inop, increase vis CAT ABCDE to 1 mile. ⁸When ALS inop, increase vis CAT ABC to 1¼ mile, CAT DE to 1½ mile. ⁹When CIRCLING to RWY 25 or 32, increase vis CAT A to 1¼ mile. ¹⁰Amdt 2. ¹¹Amdt 1.

INSTRUMENT APPROACH PROCEDURE CHARTS

IFR TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

Civil Airports and Selected Military Airports

ALL USERS: Airports that have Departure Procedures (DPs) designed specifically to assist pilots in avoiding obstacles during the climb to the minimum enroute altitude, and/or airports that have civil IFR take-off minimums other than standard, are listed below. Take-off Minimums and Departure Procedures apply to all runways unless otherwise specified. Altitudes, unless otherwise indicated, are minimum altitudes in MSL.

DPs specifically designed for obstacle avoidance are referred to as Obstacle Departure Procedures (ODPs) and are described below in text, or published separately as a graphic procedure. If the (Obstacle) DP is published as a graphic procedure, its name will be listed below, and it can be found in either this volume (civil), or a separate Departure Procedure volume (military), as appropriate. Users will recognize graphic obstacle DPs by the term "(OBSTACLE)" included in the procedure title; e.g., TETON TWO (OBSTACLE). If not assigned a SID or radar vector by ATC, an ODP may be flown without ATC clearance to ensure obstacle clearance.

Graphic DPs designed by ATC to standardize traffic flows, ensure aircraft separation and enhance capacity are referred to as "Standard Instrument Departures (SIDs)". SIDs also provide obstacle clearance and are published under the appropriate airport section. ATC clearance must be received prior to flying a SID.

CIVIL USERS NOTE: Title 14 Code of Federal Regulations Part 91 prescribes standard take-off rules and establishes take-off minimums for certain operators as follows: (1) Aircraft having two engines or less - one statute mile. (2) Aircraft having more than two engines - one-half statute mile. These standard minima apply in the absence of any different minima listed below.

MILITARY USERS NOTE: Civil (nonstandard) take-off minima are published below. For military take-off minima, refer to appropriate service directives.

NAME TAKE-OFF MINIMUMS

AFTON, WY

AFTON MUNI

DEPARTURE PROCEDURE: **Rwy 16**, Use LUNDI
DEPARTURE. **Rwy 34**, use AFTON DEPARTURE.

ALBANY, OR

ALBANY MUNI

DEPARTURE PROCEDURE: **Rwy 16**, turn right.
Rwy 34, turn left. All aircraft climb direct CVO VOR/
DME and continue climb in CVO VOR/DME holding
pattern, (E, right turns, 261° inbound) to cross CVO
VOR/DME at or above 3000.

ANACONDA, MT

BOWMAN FIELD

TAKE-OFF MINIMUMS: **Rwy 4**, std. w/min. climb of 417'
per NM to 9000, or 2800-3 for climb in visual conditions.
Rwy 17, std. w/min. climb of 321' per NM to 10200, or
2800-3 for climb in visual conditions. **Rwy 22**, NA-
obstacles. **Rwy 35**, std. w/min. climb of 369' per NM to
9100, or 2800-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 4, 35**, climbing right
turn to 10200 via heading 130° and CPN VOR/DME R-
340 to CPN VOR/DME, continue climb-in-hold to 10200
(north, left turn, 166° inbound), or for climb in visual
conditions, cross Bowman Field Airport at or above 7700
then proceed via CPN R-309 to CPN VOR/DME,
continue climb-in-hold to 10200 (north, left turn, 166°
inbound).

NAME TAKE-OFF MINIMUMS

BOWMAN FIELD(CON'T)

Rwy 17, climbing left turn to 10200 via heading 100° and
CPN VOR/DME R-335 to CPN VOR/DME, continue
climb-in-hold to 10200 (north, left turn, 166° inbound), or
for climb in visual conditions, cross Bowman Field
Airport at or above 7700 then proceed via CPN R-309 to
CPN VOR/DME, continue climb-in-hold to 10200 (north,
left turn, 166° inbound).

NOTE: **Rwy 17**, multiple trees beginning 865' from
departure end of runway, 243' left of centerline, up to 70'
AGL/5097' MSL. Rod on hangar 570' from departure
end of runway, 278' left of centerline, 54' AGL/5054'
MSL. Multiple trees beginning 787' from departure end
of runway, 165' right of centerline, up to 70' AGL/5098'
MSL. Multiple transmission lines beginning 4602' from
departure end of runway, 1664' right of centerline, 80'
AGL/5159' MSL. **Rwy 35**, multiple transmission lines
beginning 2242' from departure end of runway, 964' left
of centerline, up to 80' AGL/5159' MSL.

ARCO, ID

ARCO-BUTTE COUNTY (AOC)

AMDT 1 08157 (FAA)

TAKE-OFF MINIMUMS: **Rwy 6**, NA - Obstacles.
DEPARTURE PROCEDURE: Use JATTS
DEPARTURE.

ARLINGTON, WA**ARLINGTON MUNI**

TAKE-OFF MINIMUMS: **Rwy 11**, 600-2 or std. with a min. climb of 350' per NM to 700. **Rwy 34**, 500-2 or std. with a min. climb of 260' per NM to 700.

DEPARTURE PROCEDURE: **Rwy 11**, turn right.

Rwy 16, climb direct to WATON LOM. **Rwys 29, 34**, turn left. **All aircraft** climb direct to WATON LOM. Aircraft departing WATON LOM on bearings 150° CW 200° and bearings 260° CW 340° from WATON LOM continue climb on course. Aircraft departing WATON LOM on bearings 340° CW 150° from WATON LOM climb in holding pattern (S, left turns, 339° inbound) to 4500 then continue climb on course. Aircraft departing WATON LOM on bearings 200° CW 260° from WATON LOM climb in holding pattern (S, left turns, 339° inbound) to 1500 then continue climb on course.

ASTORIA, OR**ASTORIA RGNL**

TAKE-OFF MINIMUMS: **Rwy 8**, 800-3 or std. with a min. climb of 320' per NM to 900. **Rwy 13**, 700-2 or std. with a min. climb of 350' per NM to 800.

DEPARTURE PROCEDURE: **Rwys 8, 31**, turn left.

Rwy 13, climb runway heading to 800 then climbing right turn. **Rwy 26**, turn right. Aircraft departing northwestbound climb via AST R-290 on course.

All other aircraft climb to 1500 or above via AST R-290 then left turn to AST VOR/DME and continue climbing on course.

AUBURN, WA**AUBURN MUNI**

DEPARTURE PROCEDURE: Use AUBURN DEPARTURE.

AURORA, OR**AURORA STATE**

DEPARTURE PROCEDURE: **Rwy 17**, turn right,

thence... **Rwy 35**, turn left, thence...

...Aircraft proceeding via V23 climb on course; All others climb in UBG VOR/DME holding pattern (hold south, left turn, 003° inbound) to cross UBG VOR/DME at or above MEA/MCA for direction of flight.

NOTE: **Rwy 17**, multiple trees 31' from departure end of runway, 273' right of centerline, up to 90' AGL/270' MSL.

Multiple trees beginning 979' from departure end of runway, 247' right of centerline up to 113' AGL/316' MSL.

Road 254' from departure end of runway, 350' left of centerline, 16' AGL/209' MSL. **Rwy 35**, multiple trees and road beginning 31' from departure end of runway, 163' left of centerline, up to 138' AGL/329' MSL.

Multiple trees beginning 973' from departure end of runway, 281' right of centerline, up to 58' AGL/253' MSL.

BAKER, MT**BAKER MUNI**

NOTE: **Rwy 13**, 51' derrick 2200' from departure end of runway on centerline. 100' trees south of airport, near runway, various locations. **Rwy 31**, 146' antenna on tower 4000' from departure end of runway, 1800' left of centerline. 114' rod on OL antenna 3800' from departure end of runway on centerline.

BAKER CITY, OR**BAKER CITY MUNI**

TAKE-OFF MINIMUMS: **Rwy 8**, 900-2 or std. with a min. climb of 315' per NM to 6000, (788' per min. at 150K, 1050' per min. at 200K, 1313' per min. at 250K).

Rwy 13, 1400-2 or std. with a min. climb of 310' per NM to 6000 (775' per min. at 150K, 1033' per min. at 200K, 1292' per min. at 250K). **Rwy 17, NA. Rwy 31**, 1300-2 or std. with a min. climb of 240' per NM to 6000 (600' per min. at 150K, 800' per min. at 200K, 1000' per min. at 250K). **Rwy 35**, CAT C, D 1000-2; or std. with a min. climb of 240' per NM to 6000 (600' per min. at 150K, 800' per min. at 200K, 1000' per min. at 250K).

DEPARTURE PROCEDURE: **Rwys 8, 13**, turn left.

Rwys 26, 31, 35, turn right. **All aircraft** climb direct BKE VOR/DME. Continue climb in BKE holding pattern (SE, right turns, 298° inbound) to cross BKE VOR/DME at or above MCA or MEA for route of flight.

BELLINGHAM, WA**BELLINGHAM INTL**

DEPARTURE PROCEDURE: **Rwy 16**, climb heading 160° to 600, then climbing right turn direct HUH VORTAC. Do not exceed 210 KIAS until established northbound. **Rwy 34**, climb heading 340° to 600, then climbing left turn to intercept HUH R-145 to HUH VORTAC, continue climb in holding pattern (northwest, right turn, 149° inbound) to MEA as appropriate for direction of flight.

NOTE: **Rwy 16**, lighted windsock 9' from departure end of runway, 259' right of centerline, 16' AGL/181' MSL.

Multiple trees beginning 747' from departure end of runway, 405' right of centerline, up to 68' AGL/213' MSL.

Multiple trees beginning 1128' from departure end of runway, 57' left of centerline, up to 104' AGL/249' MSL.

Rwy 34, lighted windsock 93' from departure end of runway, 516' right of centerline, 27' AGL/169' MSL. multiple trees beginning 1372' from departure end of runway, 619' right of centerline, up to 134' AGL/246' MSL.

BEND, OR**BEND MUNI (BDN)****AMDT 4 09183 (FAA)**

DEPARTURE PROCEDURE: Use BEND DEPARTURE.

BIG PINEY, WY**MILEY MEMORIAL FIELD**

TAKE-OFF MINIMUMS: **Rwys 8, 26**, NA.

DEPARTURE PROCEDURE: **Rwy 13**, climb to 8400 via BPI R-124. **Rwy 31**, climb to 10800 via BPI R-320 thence all aircraft climb on course.

BILLINGS, MT

BILLINGS LOGAN INTL (BIL)

AMDT 5 08101 (FAA)

TAKE-OFF MINIMUMS: **Rwy 10R**, NA- Obstacles.DEPARTURE PROCEDURE: **Rwy 10L**, Climb heading 098° to 4600 before turning right.

NOTE: **Rwy 10L**, fence 466' from departure end of runway, 535' right of centerline, 11' AGL/3511' MSL, cars on road, beginning from 624' from departure end of runway, 427' right of centerline, 15' AGL/3523' MSL, ground beginning 21' from departure end of runway, 499' right of centerline, 0' AGL/3505' MSL. **Rwy 25**, airport security fence, abeam departure end of runway, 500' left of centerline, 11' AGL/3672' MSL to 1200' from departure end of runway, abeam rwy centerline, 11' AGL/3672' MSL.

BLACKFOOT, ID

MCCARLEY FIELD

DEPARTURE PROCEDURE: **Rwy 1**, climb to 7000 (or higher assigned altitude) direct IDA VOR/DME, before proceeding on course. **Rwy 19**, climb to 7000 (or higher assigned altitude) direct PIH VORTAC, before proceeding on course.

BOISE, ID

BOISE AIR TERMINAL / GOWEN FIELD (BOI)

AMDT 6 10042 (FAA)

DEPARTURE PROCEDURE: Use GOWEN DEPARTURE.

BOZEMAN, MT

GALLATIN FIELD (BZN)

AMDT 3 08213 (FAA)

TAKE-OFF MINIMUMS: **Rwys 3, 21**, NA-ATC.

DEPARTURE PROCEDURE: **Rwys 12, 30**, use BOZEMAN DEPARTURE.

BREMERTON, WA

BREMERTON NATIONAL (PWT)

AMDT 3 08045 (FAA)

TAKE-OFF MINIMUMS: **Rwy 1**, 300-1 or std. w/min. climb of 410' per NM to 700.

DEPARTURE PROCEDURE: **Rwy 1**, Climbing right turn to 6000 direct CAN NDB, Thence... **Rwy 19**, Climb to 6000 direct CAN NDB, thence...

...Continue climb-in-hold (S, LT, 013° inbound) to 6000 before proceeding on course.

NOTES: **Rwy 1**, Multiple bushes 380' from departure end of runway, 522' left of centerline, up to 17' AGL/456' MSL, multiple trees and poles beginning 1210' from departure end of runway, 622' left of centerline, up to 100' AGL/561' MSL, multiple trees and bushes 1012' from departure end of runway, 708' right of centerline, up to 100' AGL/495' MSL. **Rwy 19**, Multiple trees beginning 176' from departure end of runway, 337' left of centerline, up to 100' AGL/514' MSL, multiple trees beginning 371' from departure end of runway, 277' right of centerline, up to 100' AGL/548' MSL.

BUFFALO, WY

JOHNSON COUNTY

TAKE-OFF MINIMUMS: Northbound aircraft:

Rwys 13, 31, 2400-2 or std. with a min. climb of 300' per NM to 7500. Southbound aircraft: **Rwy 31**, 400-2 or std. with a min climb of 300' per NM to 6000.

DEPARTURE PROCEDURE: Northbound aircraft:

Rwy 13, turn left. **Rwy 31**, climb straight ahead.**All aircraft** proceed via SHR R-139 to SHR VORTAC.Southbound aircraft: **Rwy 13**, climb straight ahead.**Rwy 31**, turn right. **All aircraft** proceed via CZI R-319 to CZI VOR/DME.**BURLEY, ID**

BURLEY MUNI (BYI)

AMDT 5 10042 (FAA)

TAKE-OFF MINIMUMS: **Rwy 24**, 300-1½ or std. w/min. climb of 428' per NM to 4500.

DEPARTURE PROCEDURE: **Rwy 2**, climbing left turn direct BYI VOR/DME, continue climb in BYI VOR/DME holding pattern (hold Northwest right turns, 125° inbound) to cross BYI VOR/DME at or above MEA for route of flight. **Rwy 6**, climbing left turn direct BYI VOR/DME, continue climb in BYI VOR/DME holding pattern (hold Northwest right turns, 125° inbound) to cross BYI VOR/DME at or above MEA for route of flight. **Rwy 20**, climbing right turn direct BYI VOR/DME, continue climb in BYI VOR/DME holding pattern (hold Northwest right turns, 125° inbound) to cross BYI VOR/DME at or above MEA for route of flight. **Rwy 24**, climbing right turn direct BYI VOR/DME, continue climb in BYI VOR/DME holding pattern (hold Northwest right turns, 125° inbound) to cross BYI VOR/DME at or above MEA for route of flight.

NOTE: **Rwy 2**, obstruction light on bridge 252' from DER, 513' left of centerline, 57' AGL/4195' MSL. Trees beginning 686' from DER, 201' right of centerline, up to 35' AGL/4184' MSL. Tree 694' from DER, 375' left of centerline, 29' AGL/4178' MSL. Obstruction light on building 736' from DER, 188' left of centerline, 11' AGL/4161' MSL. Tower 803' from DER, 590' left of centerline, 55' AGL/4204' MSL. Vehicles on road beginning 857' from DER, 1' right of centerline, up to 17' AGL/4168' MSL. Poles beginning 1226' from DER, 549' left of centerline, up to 72' AGL/4222' MSL. Building vent 1240' from DER, 164' left of centerline, 27' AGL/4177' MSL. Stack 2206' from DER, 856' right of centerline, 86' AGL/4236' MSL. Stack 2573' from DER, 614' left of centerline, 86' AGL/4236' MSL. Elevators beginning 3980' from DER, 131' right of centerline, up to 133' AGL/4283' MSL. **Rwy 6**, trees beginning 46' from DER, 172' right of centerline, up to 14' AGL/4163' MSL. Rising terrain beginning 49' from DER, 326' right of centerline, up to 4149' MSL. Bush 150' from DER, 103' right of centerline, 5' AGL/4147' MSL. Antenna 586' from DER, 398' left of centerline, 15' AGL/4165' MSL. Obstruction light on bridge 1061' from DER, 80' right of centerline, 39' AGL/4179' MSL.

BURLEY MUNI (BYI) (CON'T)

Rwy 20, obstruction light pole 42' from DER, 124' left of centerline, 16' AGL/4170' MSL. Railroad beginning 65' from DER, 4' left of centerline, up to 23' AGL/4177' MSL. Sign 181' from DER, 121' right of centerline, 18' AGL/4172' MSL. Vehicles on road 162' from DER, 2' left of centerline, 17' AGL/4169' MSL. Vehicles on road beginning 335' from DER 348' right of centerline up to 17' AGL/4171' MSL. Pole 446' from DER, 210' right of centerline, 26' AGL/4180' MSL. Antenna 523' from DER, 337' right of centerline, 63' AGL/4217' MSL. Tree 586' from DER, 213' right of centerline, 28' AGL/4182' MSL. Trees beginning 2014' from DER, 339' left of centerline, up to 96' AGL/4251' MSL.

Rwy 24, vehicles on road beginning 25' from DER, 9' left of centerline, up to 15' AGL/4169' MSL. Fence 58' from DER, 8' left of centerline, 4' AGL/4154' MSL. Rising terrain beginning 69' from DER, 201' right of centerline, up to 4154' MSL. Railroad 152' from DER, 6' left of centerline, 23' AGL/4176' MSL. Trees beginning 427' from DER, 101' right of centerline, up to 69' AGL/4223' MSL. Vehicles on road beginning 509' from DER, 586' right of centerline, up to 15' AGL/4169' MSL. Railroad beginning 568' from DER, 288' right of centerline, up to 23' AGL/4177' MSL. Pole 735' from DER, 185' left of centerline, 18' AGL/4172' MSL. Light standard 824' from DER, 58' right of centerline, 23' AGL/4177' MSL. Antenna 1630' from DER, 112' left of centerline, 58' AGL/4212' MSL. Tower 2766' from DER, 175' left of centerline, 123' AGL/4282' MSL. Tower 3570' from DER, 158' right of centerline, 157' AGL/4312' MSL. Obstruction light on elevators beginning 3115' from DER, 164' left of centerline, up to 184' AGL/4344' MSL.

BURLINGTON/MOUNT VERNON, WA

SKAGIT RGNL (BVS)

ORIG-A 08297 (FAA)

TAKE-OFF MINIMUMS: **Rwy 4**, 3000-2 or std. with a min. climb of 340' per NM to 3600. **Rwy 10**, 1700-2 or std. with a min. climb of 245' per NM to 2300. **Rwy 22**, 1300-2 or std. with a min. climb of 210' per NM to 1800.

DEPARTURE PROCEDURE: **Rwys 4, 10, 22**, turn right heading 280°. **Rwy 28**, climb runway heading.

All aircraft climb to 2500 then turn right direct BVS NDB to cross BVS at or above 4500. Aircraft departing on BVS R-145 CWR-330 climb on course. All others continue climbing in BVS holding pattern (NW, right turns 113° inbound) to cross BVS at or above 6800 before proceeding on course.

NOTE: **Rwy 4**, tree 2581' from departure end of runway, 426' left of centerline, 100' AGL/212' MSL. Light pole 1489' from departure end of runway, 136' left of centerline 35' AGL/137' MSL. Bush 126' from departure end of runway, 430' right of centerline, 20' AGL/101' MSL. Building 2925' from departure end of runway, 130' left of centerline, 60' AGL/180' MSL.

BURNS, OR

BURNS MUNI

DEPARTURE PROCEDURE: **Rwy 3**, climbing right turn, thence... **Rwy 12**, climb to 4600 via heading 117°, thence... **Rwys 21, 30**, climbing left turn, thence...
...All aircraft departing on ILR R-072 CWR-209, climb on course. All others climb on ILR R-123 within 10 NM to cross ILR VOR/DME at or above 5000.

NOTE: **Rwy 21**, pole 820' from departure end of runway, 357' left of centerline, 20' AGL/4169' MSL.

BUTTE, MT

BERT MOONEY

TAKE-OFF MINIMUMS: **Rwy 11**, NA-obstacles. **Rwy 15**, std. w/ min. climb of 601' per NM to 7300, or 3300-3 for climb in visual conditions. **Rwy 29**, std. w/ min. climb of 832' per NM to 6700, or 3300-3 for climb in visual conditions. **Rwy 33**, std. w/ min. climb of 355' per NM to 6800, or 3300-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 15**, climbing right turn direct CPN VOR/DME, or for climb in visual conditions: Cross Bert Mooney Airport westbound at or above 8800 then proceed direct CPN VOR/DME, thence... **Rwy 29**, climb heading 293° to intercept CPN VOR/DME R-082 to CPN VOR/DME, or for climb in visual conditions: Cross Bert Mooney Airport westbound at or above 8800 then proceed direct CPN VOR/DME, thence... **Rwy 33**, climb direct CPN VOR/DME, or for climb in visual conditions: Cross Bert Mooney Airport westbound at or above 8800 then proceed direct CPN VOR/DME, thence...

...climb in CPN VOR/DME holding pattern (hold north, left turn, 166° inbound) to cross CPN VOR/DME at or above MEA before proceeding enroute.

NOTE: **Rwy 15**, multiple trees beginning 2 NM from departure end of runway, 1779' right of centerline, up to 100' AGL/6659' MSL. Tree 2.1 NM from departure end of runway, 66' left of centerline, 100' AGL/5934' MSL.

Rwy 29, multiple trees and poles beginning 364' from departure end of runway, 7' right of centerline, up to 100' AGL/5621' MSL. Multiple trees and lights beginning 322' left of centerline, up to 100' AGL/5582' MSL. Terrain and numerous trees beginning 1.2 NM from departure end of runway, 1022' left of centerline, up to 100' AGL/6379' MSL. **Rwy 33**, flag pole 1095' from departure end of runway, 730' left of centerline, 64' AGL/5583' MSL.

CALDWELL, ID

CALDWELL INDUSTRIAL

TAKE-OFF MINIMUMS: **Rwy 12**, std. with a min. climb of 300' per NM to 5600, or 2400-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 12**, climb via heading 119° to 5600 before proceeding on course. For climb in visual conditions: Cross Caldwell Industrial Airport at or above 4800 before proceeding on course. **Rwy 30**, climb via heading 299° to 4400 before proceeding on course.

NOTE: **Rwy 12**, levee 198' from departure end of runway, 281' left of centerline, 0' AGL/2451' MSL. Multiple trees 1462' from departure end of runway, 877' right of centerline, up to 100' AGL/2505' MSL. **Rwy 30**, multiple poles 206' from departure end of runway, 389' right of centerline, up to 39' AGL/2457' MSL. Rod 353' from departure end of runway, 246' right of centerline, 21' AGL/2439' MSL.

CASPER, WY

CASPER/NATRONA COUNTY INTL (CPR)
AMDT 3A 09155 (FAA)

DEPARTURE PROCEDURE: **Rwys 3,8,12**, turn left.

All other runways, turn right. **All aircraft** climb direct DDY VORTAC before proceeding on course, or comply with published Casper SIDs.

CHEHALIS, WA

CHEHALIS-CENTRALIA

DEPARTURE PROCEDURE: **Rwy 16**, climb to 1000 via heading 160° then climbing left turn to 4000 via heading 001° and OLM R-151 to OLM VORTAC before proceeding on course. **Rwy 34**, climb to 4000 via heading 340° and OLM R-176 to OLM VORTAC before proceeding on course.

CHEYENNE, WY

CHEYENNE RGNL/JERRY OLSON FIELD

NOTE: **Rwy 13**, multiple trees beginning 74' from departure end of runway, 115' left of centerline, up to 40' AGL/6166' MSL. Multiple trees, pole, and fence beginning 34' from departure end of runway, 167' right of centerline, up to 40' AGL/6154' MSL. **Rwy 27**, multiple trees and poles beginning 525' from departure end of runway, 271' left of centerline, up to 40' AGL/6216' MSL. Multiple trees and poles beginning 1222' from departure end of runway, 275' right of centerline, up to 40' AGL/6211' MSL. **Rwy 31**, multiple trees, road, fence and sign beginning 196' from departure end of runway, 76' left of centerline, up to 40' AGL/6238' MSL. Multiple poles and sign beginning 407' from departure end of runway, 8' left of centerline, up to 69' AGL/6229' MSL.

CODY, WY

YELLOWSTONE RGNL (COD)

AMDT 4 10042 (FAA)

TAKE-OFF MINIMUMS: **Rwy 4**, std. with a min. climb of 400' per NM to 8000' or 4200-3 for climb in visual conditions. **Rwy 22**, std. with a min. climb of 385' per NM to 7400' or 4200-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 4**, climb heading 038° to 5900, then climbing left turn via COD R-171 to COD VOR/DME or for climb in visual conditions to cross Yellowstone Rgnl at or above 9400, then via COD R-189 to COD VOR/DME to cross COD VOR/DME at or above MEA for route of flight. **Rwy 22**, climb heading 218° to 6600, then climbing left turn via COD R-180 to COD VOR/DME or for climb in visual conditions to cross Yellowstone Rgnl at or above 9400, then via COD R-189 to COD VOR/DME to cross COD VOR/DME at or above MEA for route of flight.

NOTE: **Rwy 4**, trees beginning 100' from DER, 262' right of centerline, up to 79' AGL/5199' MSL. Rising terrain beginning 1723' from DER, 304' right of centerline, up to 5146' MSL. **Rwy 22**, poles beginning 1 NM from DER, 406' right of centerline, up to 60' AGL/5332' MSL. Rising terrain beginning 1 NM from DER, 109' right of centerline, up to 6235' MSL. Rising terrain beginning 5074' from DER, 131' left of centerline, up to 5428' MSL.

COEUR D'ALENE, ID

COEUR D'ALENE-PAPPY BOYINGTON FIELD
(COE)

AMDT 9 10042 (FAA)

DEPARTURE PROCEDURE: use COEUR D'ALENE DEPARTURE.

COLSTRIP, MT

COLSTRIP (M46)

AMDT 2 08157 (FAA)

TAKE-OFF MINIMUMS: **Rwy 6** use CISPU (RNAV)

DEPARTURE: **Rwy 24**, use CONUK (RNAV)
DEPARTURE.

CONRAD, MT

CONRAD

DEPARTURE PROCEDURE: **Rwy 24**, climb runway heading to 4300, then continue climb on course.

CORVALLIS, OR

CORVALLIS MUNI

TAKE-OFF MINIMUMS: **Rwys 9, 17, 35**, std. with a min. climb of 290' per NM to 3100 or 1700-3 for climb in visual conditions.

Rwy 27, std. with a min. climb of 310' per NM to 3100 or 1700-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 9, 17**, climbing left turn direct CVO VOR/DME, thence...or, climb in visual conditions to cross CVO VOR/DME at or above 3400.

Rwys 27, 35, climbing right turn direct CVO VOR/DME, thence...or, climb in visual conditions to cross CVO VOR/DME at or above 3400.

...climb in CVO VOR/DME holding pattern (E, RT, 261° inbound) to depart at or above 3400.

NOTE: **Rwy 9**, multiple trees and railroad beginning 549' from departure end of runway, 254' left of centerline, up to 153' AGL/383' MSL. Multiple trees and railroad beginning 670' from departure end of runway, 5' right of centerline, up to 135' AGL/380' MSL. **Rwy 27**,

obstruction light on glideslope 409' from departure end of runway, 325' left of centerline, 28' AGL/273' MSL.

Rwy 35, multiple trees beginning 470' from departure end of runway, 544' left of centerline up to 36' AGL/276' MSL.

COWLEY/LOVELL/BYRON, WY

NORTH BIG HORN COUNTY

DEPARTURE PROCEDURE: **Rwys 9, 27**, aircraft departing via HCY NDB bearings 130° CW 225° climb on course, all others climb in HCY NDB holding pattern (W, right turns, 078° inbound) to cross HCY NDB at or above 9000.

DEER PARK, WA

DEER PARK (DEW)
AMDT 1 10098 (FAA)

TAKE-OFF MINIMUMS: **Rwy 34**, 300-1½ or std. with a min. climb of 455' per NM to 2500.

DEPARTURE PROCEDURE: **Rwy 4**, climbing right turn heading 165° and GEG VORTAC R-006 to GEG VORTAC. **Rwy 16**, climb heading 164° and GEG VORTAC R-006 to GEG VORTAC. **Rwy 22**, climbing left turn heading 155° and GEG VORTAC R-006 to GEG VORTAC. **Rwy 34**, climbing right turn heading 165° and GEG VORTAC R-006 to GEG VORTAC.

NOTE: **Rwy 4**, aircraft 261' from DER, 511' left of centerline, up to 21' AGL/2210' MSL. Trees beginning 1809' from DER, 413' left of centerline, up to 109' AGL/2299' MSL. Aircraft 104' from DER, 186' right of centerline, up to 21' AGL/2200' MSL. Trees beginning 1667' from DER, 373' right of centerline, up to 116' AGL/2319' MSL. **Rwy 16**, trees beginning 31' from DER, 455' left of centerline, up to 109' AGL/2279' MSL. Trees beginning 2587' from DER, 621' right of centerline, up to 104' AGL/2264' MSL. **Rwy 22**, trees beginning 1461' from DER, 211' right of centerline, up to 90' AGL/2270' MSL. **Rwy 34**, aircraft 23' from DER, 218' left of centerline, up to 21' AGL/2230' MSL. Trees beginning 2678' from DER, 18' left of centerline, up to 165' AGL/2375' MSL. Vehicles beginning 74' from DER, 339' right of centerline, up to 15' AGL/2234' MSL. Trees beginning 2219' from DER, 260' right of centerline, up to 100' AGL/2382' MSL.

DILLON, MT

DILLON

TAKE-OFF MINIMUMS: **Rwys 3, 21**, NA.

DEPARTURE PROCEDURE: **Rwys 16, 34**, turn right, climb in DLN VOR/DME holding pattern (N, right turns, 185° inbound) to cross DLN VOR/DME at or above; northwestbound V257 8500; southwestbound V121 8500; northbound V21 7600; southeastbound V21, V257 9400.

DOUGLAS, WY

CONVERSE COUNTY

TAKE-OFF MINIMUMS: **Rwy 5**, 300-2 or std. with a min. climb of 250' per NM to 5200. **Rwy 23**, 1700-3 or std. with a min. climb of 260' per NM to 7200.

DEPARTURE PROCEDURE: **Rwy 5**, climbing right turn via IIP VOR/DME R-342 to IIP VOR/DME. **Rwy 11**, climbing right turn via IIP VOR/DME R-312 to IIP VOR/DME. **Rwy 23**, climbing left turn via IIP VOR/DME R-264 to IIP VOR/DME. **Rwy 29**, climbing right turn via IIP VOR/DME R-325 to IIP VOR/DME. **All aircraft** departing IIP R-253 CW R-180 climb on course. All others continue climb in IIP VOR/DME holding pattern (NW, left turns, 125° inbound) to cross IIP VOR/DME at or above: R-181 CW R-199 9600; R-200 CW R-252 8000.

NOTE: **Rwy 5**, trees 1883' from departure end of runway, 549' right of centerline, 35' AGL/5014' MSL. Trees 3407' from departure end of runway, 209' right of centerline, 35' AGL/5074' MSL. Trees 5458' from departure end of runway, 1954' right of centerline, 35' AGL/5132' MSL. **Rwy 23**, trees 2068' from departure end of runway, 1008' left of centerline, 35' AGL/4994' MSL. Trees 3130' from departure end of runway, 1215' left of centerline, 35' AGL/5014' MSL.

DRIGGS, ID

DRIGGS-REED MEMORIAL (DIJ)
AMDT 2 08157 (FAA)

DEPARTURE PROCEDURE: Use LAMON DEPARTURE.

EASTSOUND, WA

ORCAS ISLAND (ORS)

AMDT 1 09351 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, NA-Terrain. **Rwy 34**, 500-3 or std. w/ min. climb of 224' per NM to 600.

DEPARTURE PROCEDURE: **Rwy 34**, climbing right turn to 2000 to intercept HUH VORTAC R-210 to HUH VORTAC, then climb-in-hold (hold South, Left turns, 352° inbound) to cross HUH VORTAC at or above 3800 before proceeding on course.

NOTE: **Rwy 34**, trees beginning 330' from DER, 411' left of centerline, up to 120' AGL/139' MSL.

ELLENBURG, WA

BOWERS FIELD

TAKE-OFF MINIMUMS: **Rwys 7, 11**, 4600-3 or std. with a min. climb of 290' per NM to 7800. **Rwy 25**, 4700-3 or std. with a min. climb of 340' per NM to 7800. **Rwy 29**, 4600-3 or std. with a min. climb of 320' per NM to 7800.

DEPARTURE PROCEDURE: **Rwys 7, 29**, climbing right turn direct ELN VORTAC. **Rwys 11, 25**, climbing left turn direct ELN VORTAC. **All aircraft**, continue climbing in the ELN VORTAC holding pattern (W, right turns, 087° inbound) to MEA/MOCA for route of flight.

EPHRATA, WA

EPHRATA MUNI (EPH)

AMDT 3 09127 (FAA)

TAKE-OFF MINIMUMS: **Rwy 29**, NA-Obstacles.

DEPARTURE PROCEDURE: **Rwy 3**, climb heading 027° to 2300 before proceeding on course. **Rwy 11**, climb heading 112° to 2200 before proceeding on course. **Rwy 21**, climb heading 207° to 2800 before proceeding on course.

EUGENE, OR

MAHLON SWEET FIELD

DEPARTURE PROCEDURE: **Rwys 16L, 16R**, climb to 1000 then climbing right turn... **Rwys 34L, 34R**, climb to 1000 then climbing left turn...

...all aircraft climb direct EUG VORTAC, then climb in EUG VORTAC holding pattern (hold north, right turn, 175° inbound) to cross EUG VORTAC at or above MEA altitude before proceeding enroute.

NOTE: **Rwy 16R**, tree 1992' from departure end of runway, 832' left of centerline, 50' AGL/419' MSL. **Rwy 16L**, multiple trees and power poles beginning 872' from departure end of runway, 35' right of centerline, up to 50' AGL/437' MSL, multiple trees and power poles beginning 890' from departure end of runway, 77' left of centerline, up to 50' AGL/433' MSL. **Rwy 34R**, multiple trees beginning 2869' from departure end of runway, 186' right of centerline, up to 50' AGL/447' MSL. Tree 2535' from departure end of runway, 652' left of centerline, 50' AGL/428' MSL.

EVANSTON, WY

EVANSTON-UINTA COUNTY BURNS FIELD

DEPARTURE PROCEDURE: **Rwy 5**, climb via heading 050° and FBR VOR/DME R-243 to FBR VOR/DME. **Rwy 23**, climbing left turn via heading 030° and FBR VOR/DME R-243 to FBR VOR/DME.

All aircraft: cross FBR VOR/DME at or above MEA for direction of flight.

EVERETT, WA

SNOHOMISH COUNTY (PAINE FIELD)

TAKE-OFF MINIMUMS: **Rwy 29**, std. with a min. climb of 353' per NM to 800.

DEPARTURE PROCEDURE: **Rwys 11, 16L/R**, climbing right turn, thence... **Rwys 29, 34L/R**, climbing left turn, thence...

...for aircraft departing via V287 west bound, climb via PAE VOR/DME R-236 to 3000. All others, climb direct PAE VOR/DME, climb in PAE VOR/DME holding pattern (NW, RT, 149° inbound) to MEA for route of flight before proceeding on course.

NOTE: Rwy 11, multiple antennas on building, rod on obstruction light, and trees beginning 326' from departure end of runway, 387' right of centerline, up to 85' AGL/664' MSL. Tree 1156' from departure end of runway, 600' left of centerline, 93' AGL/672' MSL. **Rwy 16L**, multiple trees and pole beginning 588' from departure end of runway, 220' left of centerline, up to 118' AGL/697' MSL. Multiple trees, pole, and building beginning 449' from departure end of runway, 162' right of centerline, up to 78' AGL/657' MSL. **Rwy 16R**, multiple trees beginning 1228' from departure end of runway, 168' left of centerline, up to 140' AGL/699' MSL. Multiple trees beginning 707' from departure end of runway, 158' right of centerline, up to 118' AGL/687' MSL. **Rwy 29**, multiple trees beginning 45' from departure end of runway, 66' left of centerline, up to 111' AGL/630' MSL. Multiple trees beginning 343' from departure end of runway, 44' right of centerline, up to 110' AGL/689' MSL. **Rwy 34R**, multiple trees and pole beginning 3340' from departure end of runway, 180' right of centerline, up to 95' AGL/674' MSL. Tree 5762' from departure end of runway, 221' left of centerline, 103' AGL/682' MSL.

FAIRCHILD AFB (KSKA)

SPOKANE, WA ORIG, 08017

DEPARTURE PROCEDURES: **Rwy 5**, climb on track 048° to intercept SKA R-045 to 5300, then on course. **Rwy 23**, climb on track 241° to 3400, then on course.

TAKE-OFF OBSTACLES: **Rwy 23**, Terrain 2468' MSL, 194' from DER, 405' right of centerline. Terrain 2477' MSL, 461' from DER, 751' right of centerline. Terrain 2477' MSL, 509' from DER, 750' right of centerline.

FORT BENTON, MT

FORT BENTON

TAKE-OFF MINIMUMS: **Rwys 5, 23**, std. w/ min. climb of 274' per NM to 8900 or 5100-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 5, 23**, for climb in visual conditions: Cross Fort Benton Airport at or above 8900 MSL before proceeding on course.

FORT BRIDGER, WY

FORT BRIDGER

DEPARTURE PROCEDURE: **All aircraft** climb direct FBR VOR/DME. Aircraft departing; FBR R-210 CW R-135 climb on course; FBR R-136 CW R-209 cross FBR VOR/DME at or above 9000. (Hold NE, right turns, 215° inbound).

FRIDAY HARBOR, WA

FRIDAY HARBOR

TAKE-OFF MINIMUMS: **Rwy 34**, 500-1.

DEPARTURE PROCEDURE: Aircraft departing FHR NDB **Rwy 34**, climbing right turn direct FHR NDB, then climb on course. All other aircraft climb on course.

GILLETTE, WY

GILLETTE-CAMPBELL COUNTY (GCC)

AMDT 4 09071 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, std. w/ min. climb of 275' per NM to 5600, or 1200-3 for climb in visual conditions. **Rwy 21**, 600-3 or std. w/ min. climb of 425' per NM to 5200.

DEPARTURE PROCEDURE: **Rwy 16**, climb via heading 158° to 5100, before proceeding on course or, for climb in visual conditions cross Gillette-Campbell County airport at or above 5400 before proceeding on course. **Rwy 21**, climb via heading 206° to 5200, before proceeding on course.

NOTE: Rwy 3, windsock 1415' from DER, 100' left of centerline, 24' AGL/4366' MSL. Trees beginning 1976' from DER, 267' right of centerline, up to 30' AGL/4409' MSL. **Rwy 16**, tower and poles beginning 1.61 NM from DER, 1264' left of centerline, up to 57' AGL/4696' MSL. Post and trees beginning 1.77 NM from DER, 300' right of centerline, up to 51' AGL/4789' MSL. **Rwy 21**, fence 328' from DER, 267' left of centerline, 7' AGL/4352' MSL, trees 2077' from DER, 1011' right of centerline, 30' AGL/4449' MSL, tree 7029' from DER, 2378' right of centerline, 30' AGL/4729' MSL. **Rwy 34**, fence 1236' from DER, 723' left of centerline, 16' AGL/4380' MSL. Vehicle on road 1609' from DER, 419' left of centerline, 15' AGL/4394' MSL. Trees 3093' from DER, 936' right of centerline, 30' AGL/4449' MSL. Vehicle on road 1610' from DER. 419' left of centerline, 15' AGL/4380' MSL.

GOODING, ID

GOODING MUNI (GNG)

ORIG 08269 (FAA)

DEPARTURE PROCEDURE: **Rwy 7**, climb heading 068° to 5000 before turning left. **Rwy 25**, climb heading 233° to 5600 before turning right.

NOTE: Rwy 7, rising terrain 59' from departure end of runway, 479' right of centerline, up to 3754' MSL. Fence line 653' from departure end of runway, 332' right of centerline, 12' AGL up to 3751' MSL. Bushes starting 877' from departure end of runway, 420' right of centerline, 20' AGL up to 3795' MSL. **Rwy 25**, vehicle on road, 91' from departure end of runway, 257' left of centerline, up to 10' AGL/3678' MSL.

GRANGEVILLE, ID

IDAHO COUNTY (S80)

AMDT 1 08157 (FAA)

TAKE-OFF MINIMUMS: **Rwy 7**, 10 - Obstacles.

DEPARTURE PROCEDURE: **Rwy 25**, Use MELLR

DEPARTURE.

GRANTS PASS, OR

GRANTS PASS

TAKE-OFF MINIMUMS: **Rwy 12**, NA. **Rwy 30**, 4000-3 or std. with a min. climb of 360' per NM to 5000.

DEPARTURE PROCEDURE: **Rwy 30**, climb via heading 320 until passing 5000, then climbing right turn direct RBG VOR/DME. Cross RBG VOR/DME at or above MEA for route of flight.

GRAY AAF (KGRF)

FORT LEWIS, WA AMDT 2, 10098

Rwy 15, Standard

Rwy 33, 300-1*

* Or standard with minimum climb of 430/NM to 600.

DEPARTURE PROCEDURE: **Rwy 15**, Climb heading 147° to 700 then climbing left turn direct GRF NDB.

Rwy 33, Climb direct GRF NDB. Aircraft departing 330° CW 070° and 135° CW 260° bearing from GRF NDB climb on course. All others continue climb in GRF NDB holding pattern (hold NW, RT, 147° inbound) to cross GRF NDB at or above: 071° CW 134° bearing from GRF NDB, 8500; 261° CW 329° bearing from GRF NDB, 1500.

TAKE-OFF OBSTACLES: **Rwy 15**, Tree 100' AGL/439' MSL, 1848' from DER, 430' right of centerline. **Rwy 33**, Tree 100' AGL/479' MSL, 3465' from DER, 1338' left of centerline.

GREAT FALLS, MT

GREAT FALLS INTL

NOTE: **Rwy 7**, obstruction light on lighted wind sock 237' from departure end of runway, 519' left of centerline, 34' AGL/3694' MSL. Obstruction light on building 2226' from departure end of runway, 614' left of centerline, 78' AGL/3738' MSL. Building on 681' from departure end of runway, 583' right of centerline, 48' AGL/3688' MSL. Multiple light poles beginning 1359' from departure end of runway, 440' right of centerline, up to 90' AGL/3746' MSL. **Rwy 21**, pole 1544' from departure end of runway, 791' left of centerline, 45' AGL/3725' MSL. **Rwy 25**, windmill 2.3 NM from departure end of runway, 4197' right of centerline, 338' AGL/4003' MSL.

GREYBULL, WY

SOUTH BIG HORN COUNTY (GEY)

ORIG-A 09239 (FA)

TAKE-OFF MINIMUMS: **Rwy 25**, 300-1 or std. w/min. climb of 260' per NM to 4200.

DEPARTURE PROCEDURE: **All runways**, for departures on Gey bearings 320° CW 150°, climb in Gey NDB holding pattern to 9000 before departing on course, then continue climb to MEA or assigned altitude. Departures Gey bearings 150° CW 320° climb on course.

NOTE: **Rwy 25**, bush 4955' from DER, 1268' right of centerline, 2' AGL/4101' MSL.

GUERNSEY, WY

CAMP GUERNSEY

TAKE-OFF MINIMUMS: **Rwy 14**, 300-1 or std. with a min. climb of 320' per NM to 4700. **Rwy 32**, 1400-2 or std. with a min. climb of 320' per NM to 5800.

DEPARTURE PROCEDURE: **Rwy 14**, climb to 5600 via heading 150°. **Rwy 32**, climb to 5800 via heading 070°. **All aircraft** continue on course.

HAILEY, ID

FRIEDMAN MEMORIAL

TAKE-OFF MINIMUMS: **Rwy 13**, 2700-3 w/min. climb of 307' per NM to 6400, or 3600-3 for climb in visual conditions. **Rwy 31**, NA-obstacles.

DEPARTURE PROCEDURE: **Rwy 13**, Climbing right turn heading 149°, then on 160° course to HLE NDB, or for climb in visual conditions: cross Friedman Memorial Airport at or above 8800 heading 151°, then on 151° course to HLE NDB.

NOTE: **Rwy 13**, multiple trees beginning 763' from departure end of runway, 3' right of centerline, up to 100' AGL/5345' MSL. Multiple trees beginning 1.3 NM from departure end of runway, 2587' right of centerline, up to 100' AGL/6099' MSL.

HAMILTON, MT

RAVALLI COUNTY

DEPARTURE PROCEDURE: Use HAMEY RNAV DEPARTURE.

HAVRE, MT

HAVRE CITY-COUNTY (HVR)

AMDT 3 09351 (FAA)

TAKE-OFF MINIMUMS: **Rwy 8**, 300-1½ or std. w/min. climb of 217' per NM to 3300.

DEPARTURE PROCEDURE: **Rwy 3**, climb heading 032° to 3300 then climbing left turn to 8000 direct HVR VOR/DME thence...**Rwy 8**, climb heading 077° to 3300 then climbing left turn to 8000 via HVR R-025 to HVR VOR/DME thence...**Rwy 21**, climb heading 212° to 3300 then climbing right turn to 8000 direct HVR VOR/DME thence...**Rwy 26**, climb heading 257° to 3300 then climbing right turn to 8000 direct HVR VOR/DME thence...

...continue climb in hold in HVR VOR/DME holding pattern (hold west, right turns, 094° inbound) to cross HVR VOR/DME at or above 8000 before proceeding on course.

NOTE: **Rwy 3**, pole 2682' from DER, 1044' left of centerline, 21' AGL/2680' MSL. **Rwy 8**, obstruction light on windsock 59' from DER, 224' left of centerline, 9' AGL/2588' MSL. Tree 1192' from DER, 752' left of centerline, 25' AGL/2610' MSL. Tank 1.3 NM from DER, 2287' left of centerline, 57' AGL/2797' MSL. **Rwy 26**, light on windsock, 50' from DER, 225' right of centerline, 9' AGL/2589' MSL. Trees beginning 1617' from DER, 650' right of centerline, 25' AGL/2659' MSL.

HELENA, MT

HELENA RGNL (HLN)
ADMT 9 08269 (FAA)

TAKE-OFF MINIMUMS: **Rwy 5**, 2500-3 or std. w/ min. climb of 250' per NM to 8100, or 1600-3 for climb in visual conditions. **Rwy 9**, std. w/ min. climb of 240' per NM to 8100, or 1600-3 for climb in visual conditions. **Rwy 23**, 1600-3 or std. w/ min. climb of 560' per NM to 8100, or 1600-3 for climb in visual conditions. **Rwy 27**, 1600-3 or std. w/ min. climb of 390' per NM to 8100, or 1600-3 for climb in visual conditions. **Rwys 16, 34, NA**.
DEPARTURE PROCEDURE: **Rwys 5, 9**, climbing left turn heading 270°. **Rwys 23, 27**, climbing right turn heading 020°. **All Aircraft**: continue climb northwestbound via HLN R-318 to 8100, then climbing right turn direct HLN VORTAC, cross HLN VORTAC at or above 9000, before proceeding on course, or for climb in visual conditions: cross Helena Rgnl airport northbound at or above 5300 and continue climbing via HLN R-336 to WOKEN INT before proceeding on course.

NOTE: **Rwy 5**, ground beginning 5' from departure end of runway, 495' right of centerline, up to 3826' MSL. Fence beginning 423' from departure end of runway, 331' right of centerline, up to 10' AGL/3832' MSL. **Rwy 23**, pole 2198' from departure end of runway, 462' left of centerline, 76' AGL/3996' MSL, tree 1011' from departure end of runway, 379' left of centerline, 44' AGL/3964' MSL, rod on building 953' from departure end of runway, 321' left of centerline, 323' AGL/943' MSL, tree 1519' from departure end of runway, 142' right of centerline, 53' AGL/3953' MSL. **Rwy 27**, building 1593' from departure end of runway, 731' left of centerline, 58' AGL/6385' MSL. Ground beginning 101' from departure end of runway, 346' left of centerline, up to 3871' MSL. Tree 1567' from departure end of runway, 616' left of centerline, 47' AGL/3906' MSL.

HERMISTON, OR

HERMISTON MUNI

NOTE: **Rwy 4**, tower 379' left of departure end of runway, 50' AGL/698' MSL. **Rwy 22**, light pole 456' left of departure end of runway, 44' AGL/684' MSL.

HOQUIAM, WA

BOWERMAN

TAKE-OFF MINIMUMS: **Rwy 6**, 600-2 or std. with a min. climb of 260' per NM to 600.
DEPARTURE PROCEDURE: **Rwy 6**, climbing right turn heading 110°. **Rwy 24**, climb runway heading.
All aircraft climb to 600 continue climb on course.

HULETT, WY

HULETT MUNI (W43)
ORIG 07354 (FAA)

TAKE-OFF MINIMUMS: **Rwy 13**, std. w/ min. climb of 450' per NM to 6300, or 500-2½ w/ min. climb of 295' per NM to 7700, or 2200-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 13**, climb to 7700 via heading 132° before proceeding on course, or climb in visual conditions: cross Hulett Muni Airport at or above 6300 before proceeding on course. **Rwy 31**, climbing right turn on a heading between 090° clockwise to 115° from departure end of runway to 7700 before proceeding on course.

NOTE: **Rwy 13**, road 398' from departure end of runway, 37' left of centerline, 15' AGL/4296' MSL, truck on road 1126' from departure end of runway, 346' right of centerline, 15' AGL/4334' MSL, trees beginning 4945' from departure end of runway, across centerline, up to 100' AGL/4657' MSL. **Rwy 31**, terrain 104' from departure end of runway, 420' left of centerline, 4200' MSL, terrain 344' from departure end of runway, 233' left of centerline, 4207' MSL.

IDAHO FALLS, ID

IDAHO FALLS RGNL (IDA)
AMDT 4 09351 (FAA)

DEPARTURE PROCEDURE: **All aircraft** departing IDA R-160 CW R-040 climb on course. **All others** climb direct IDA VOR/DME. Continue climb in IDA holding pattern (South, left turns, 019° inbound) to cross IDA VOR/DME at or above 7500 before proceeding on course.

NOTE: **Rwy 2**, pole 1039' from DER, 758' left of centerline, 42' AGL/4762' MSL. **Rwy 17**, trees, flagpole, building, light and vent on buildings, and vehicle on road beginning 29' from DER, 10' right of centerline, up to 84' AGL/4820' MSL. Trees and vent on building beginning 569' from DER, 22' left of centerline, up to 35' AGL/4760' MSL. Trees, antenna, and light poles beginning 1853' from DER, 26' right of centerline, up to 121' AGL/4851' MSL. **Rwy 35**, trees and railroad beginning 410' from DER, 503' right of centerline, up to 49' AGL/4769' MSL. Tree 1034' from DER, 715' left of centerline, 42' AGL/4762' MSL.

JACKSON, WY

JACKSON HOLE

DEPARTURE PROCEDURE: **Rwy 1**, use GEYSER DEPARTURE. **Rwy 19**, use TETON DEPARTURE.

JEROME, ID

JEROME COUNTY (JER)

AMDT 2 09295 (FAA)

TAKE-OFF MINIMUMS: **Rwy 9**, 500-1½ or std. w/ min. climb of 435' per NM to 4700.

DEPARTURE PROCEDURE: **Rwy 9**, climb heading 086° to 5300 before proceeding on course. **Rwy 27**, climb heading 266° to 4800 before proceeding on course.

NOTE: **Rwy 9**, bush 140' from DER, 500' left of centerline, 16' AGL/4076' MSL. Poles starting 1432' from DER, 32' left of centerline, up to 47' AGL/4169' MSL. Sign 1473' from DER, 547' left of centerline, 49' AGL/4119' MSL. Obstruction light on building 1510' from DER, 6' left of centerline, 43' AGL/4103' MSL. Trees starting 1651' from DER, 100' left of centerline, up to 53' AGL/4137' MSL. Building 2186' from DER, 173' left of centerline, 29' AGL/4119' MSL. Rising terrain starting 2549' from DER, 560' left of centerline, up to 4219' MSL. AG equip 4752' from DER, 517' left of centerline, 26' AGL/4175' MSL. Poles starting 600' from DER, 254' right of centerline, up to 48' AGL/4173' MSL. **Rwy 27**, fence starting 18' from DER, 440' left of centerline, up to 9' AGL/3969' MSL.

JOHN DAY, OR

GRANT COUNTY RGNL/OGILVIE FIELD

(GCD)

AMDT 1 09015 (FAA)

TAKE-OFF MINIMUMS: **Rwys 9, 17, 35**, NA, Terrain.

DEPARTURE PROCEDURE: **Rwy 27**, climbing left turn to 12000 heading 270° and IMB R-100 to IMB VORTAC, climb in IMB VORTAC holding pattern (E, right turns, 280° inbound) to cross IMB VORTAC at or above MEA for route of flight.

NOTE: **Rwy 27**, fence beginning 195' from departure end of runway, 50' right of centerline, up to 16' AGL/3665' MSL. Trees beginning 229' from departure end of runway, 261' right of centerline, up to 26' AGL/3662' MSL. Bush 389' from departure end of runway, 438' right of centerline, 20' AGL/3659' MSL.

KALISPELL, MT

GLACIER PARK INTL

DEPARTURE PROCEDURE: Use SKOTT

DEPARTURE.

KELSO, WA

SOUTHWEST WASHINGTON RGNL (KLS)

AMDT 3 10098 (FAA)

TAKE-OFF MINIMUMS: **Rwy 12**, NA, terrain. **Rwy 30**, std. with a min. climb of 370' per NM to 1900 or 1900-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 30**, climb heading 303° to 1900 then climbing right turn to 3900 direct LSO NDB. Continue climb in LSO NDB holding pattern (North, right turns, 175° inbound) to cross LSO NDB at or above 3900, then via BTG R-310 to BTG VORTAC. For climb in visual conditions: cross Southwest Washington Rgnl at or above 1800, then via BTG R-309 to BTG VORTAC.

NOTE: **Rwy 30**, light pole 22' from DER, 301' right of centerline, 30' AGL/49' MSL. Windsock 235' from DER, 348' left of centerline, 30' AGL/49' MSL. Rotating beacon 502' from DER, 425' left of centerline, 50' AGL/70' MSL. Multiple trees beginning 213' from DER, 530' right to 747' left of centerline, up to 136' AGL/155' MSL. Pole 964' from DER, 44' right of centerline, 30' AGL/50' MSL.

KEMMERER, WY

KEMMERER MUNI (EMM)

AMDT 1 09239 (FAA)

TAKE-OFF MINIMUMS: **Rwys 4, 10, 22, 28**, NA -Rwy surfaces.

DEPARTURE PROCEDURE: **Rwy 16**, climb to 12000 via heading 166° and FBR VOR/DME R-330 to FBR VOR/DME before proceeding on course. **Rwy 34**, climb via heading 346° to 8200 then climbing right turn to 12000 via heading 125° and FBR VOR/DME R-345 to FBR VOR/DME before proceeding on course.

KLAMATH FALLS, OR

KLAMATH FALLS

TAKE-OFF MINIMUMS: **Rwy 7**, NA. **Rwy 14**, 1100-3 or std. with a min. climb of 275' per NM to 5500. **Rwy 25**, 3300-3 or std. with a min. climb of 250' per NM to 7400. **Rwy 32**, 2000-3 or std. with a min. climb of 320' per NM to 6300.

DEPARTURE PROCEDURE: **Rwys 14, 25**, climb via runway heading to 6000 then climbing right turn direct LMT VORTAC, thence... **Rwy 32**, climb via runway heading to 5500 then climbing left turn direct LMT VORTAC, thence... climb in LMT holding pattern (W, right turns, 070° inbound) to cross LMT VORTAC at or above 8000.

LA GRANDE, OR

LA GRANDE/UNION COUNTY

TAKE-OFF MINIMUMS: **Rwy 12**, Cat A/B 2900-3 or std. with a min. climb of 350' per NM to 6100. Cat C/D 4500-3 or std. with a min. climb of 500' per NM to 7800. **Rwy 30**, Cat A/B 2900-3 or std. with a min. climb of 350' per NM to 6100. Cat C/D 3600-3 or std. with a min. climb of 450' per NM to 6800. **Rwy 34**, 2900-3 or std. with a min. climb of 350' per NM to 6100. **Rwy 16**, 2000-3 or std. with a min. climb of 500' per NM to 5000.

DEPARTURE PROCEDURE: **Rwy 12, 16**, climbing left turn direct LGD NDB, thence; **Rwys 30, 34**, climbing right turn heading 010°, thence; **all aircraft** climb to 7000 via the 339° bearing from LGD NDB, then climbing right turn direct LGD NDB.

LAKEVIEW, OR

LAKE COUNTY

TAKE-OFF MINIMUMS: **Rwy 16**, 3700-5 or std. with a min. climb of 320' per NM to 8800. **Rwy 34**, 2500-5 or std. with a min. climb of 320' per NM to 8500.

DEPARTURE PROCEDURE: **Rwy 16**, climbing right turn via LKV R-163 to LKV VORTAC. **Rwy 34**, climbing left turn heading 320° to intercept LKV R-148 then via LKV R-148 to LKV VORTAC. **All aircraft** continue climbing in the LKV VORTAC holding pattern (NW, right turns, 148° inbound) to MEA for route of flight.

LARAMIE, WY

LARAMIE RGNL

DEPARTURE PROCEDURE: **Rwy 3**, turn left.

Rwys 12, 21, turn right. **All aircraft** climb direct LAR VORTAC, continue climb in holding pattern (W, left turns, 107° inbound) to cross LAR VORTAC at or above: westbound V4, 10600. All others cross LAR VORTAC at or above MEA for direction of flight.

LAUREL, MT

LAUREL MUNI

TAKE-OFF MINIMUMS: **Rwys 9, 14, 27, 32**, NA.

DEPARTURE PROCEDURE: **Rwy 22**, turn left.

All aircraft climb direct BIL VORTAC.

LEWISTON, ID

LEWISTON-NEZ PERCE COUNTY

DEPARTURE PROCEDURE: **Rwys 8, 11, 26, 29**, turn left direct MQG VOR/DME. Continue climb in holding pattern (W, left turns, 066° inbound) to cross MQG VOR/DME at or above 3600.

LEWISTOWN, MT

LEWISTOWN MUNI

TAKE-OFF MINIMUMS: **Rwy 2**, 1800-2 or std. with a min. climb of 280' per NM to 6900. **Rwy 7, 12**, 900-2 or std. with a min. climb of 220' per NM to 6200.

DEPARTURE PROCEDURE: **Rwys 2, 30** turn left.

Rwys 7, 12, 20, turn right. **Rwy 25**, climb runway heading. **All aircraft** climb direct LWT VORTAC. Continue climb in holding pattern (W, right turns, 094° inbound) to MEA for route of flight.

LEXINGTON, OR

LEXINGTON

TAKE-OFF MINIMUMS: **Rwy 26**, std. with min. climb of 280' per NM to 7600, or 1600-2 ½ for climb in visual conditions. **Rwy 8**, std. with min. climb of 490' per NM to 4200, or 1600-2 ½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 8, 26**, for climb in visual conditions: cross Lexington Airport at or above 3600.

NOTES: **Rwy 8**, trees 1.42 NM from departure end of runway, 2386' left of centerline, 100' AGL/2159' MSL. Trees 1.48 NM from departure end of runway, 2755' left of centerline, 100' AGL/2179' MSL.

LIBBY, MT

LIBBY

TAKE-OFF MINIMUMS: **Rwy 33**, not authorized.

Rwy 15, use EYESE RNAV DEPARTURE.

LIVINGSTON, MT

MISSION FIELD (LVM)

AMDT 3 09071 (FAA)

TAKE-OFF MINIMUMS: **Rwys 8, 13, 26, 31**, NA-Environmental.

DEPARTURE PROCEDURE: **Rwys 4, 22**, use LIVINGSTON DEPARTURE.

MADRAS, OR

MADRAS MUNI (S33)

ORIG-A 09043 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, std. w/ a min. climb of 298' per NM to 3900 or 1100-2 ½ for climb in visual conditions. **Rwy 22**, std. w/ a min. climb of 281' per NM to 3900 or 1100-2 ½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 4, 34**, climbing left turn heading 210° and DSD R-348 to DSD VORTAC to 7000 before proceeding on course. **Rwy 16**, climbing right turn heading 210° and DSD R-348 to DSD VORTAC to 7000 before proceeding on course, or... **Rwy 22**, climb heading 216° and DSD R-348 to DSD VORTAC to 7000 before proceeding on course, or... for climb in visual conditions: cross Madras Muni at or above 3400 MSL, then direct DSD VORTAC to 7000 before proceeding on course.

MC CALL, ID

MC CALL MUNI (MYL)

AMDT 2 09127 (FAA)

TAKE-OFF MINIMUMS: **Rwy 34**, NA-Obstacles.

DEPARTURE PROCEDURE: **Rwy 16**, use MCCALL DEPARTURE.

MC CHORD AFB (KTCM)

TACOMA, WA 09127

DEPARTURE PROCEDURE: **Rwy 16**, Track heading 160°, turn left to intercept SEA VORTAC R-168 (V495) to SEA 168/37.1 DME (ALDER). Cross ALDER at or above 4000. After ALDER, maintain MEA/MOCA for route of flight. **Rwy 34**, Track heading 340°, then turn right to intercept SEA VORTAC R-168 (V495) to SEA R-168/37.1 DME (ALDER). Cross ALDER at or above 4000. Maintain MEA/MOCA for route of flight.

TAKEOFF OBSTACLES: **Rwy 16**, Grove of trees 143' AGL/454' MSL, 4892' from DER, 1353' left of centerline. Grove of trees 102' AGL/419' MSL, 2395' from DER, 1028' right of centerline. Trees 136' AGL/447' MSL, 2867' from DER, 1261' left of centerline. Trees 120' AGL/430' MSL, 2594' from DER, 1113' left of centerline. Trees 85' AGL/394' MSL, 2310' from DER, 957' left of centerline. Trees 83' AGL/392' MSL, 2006' from DER, 959' left of centerline. Trees 87' AGL/389' MSL, 1758' from DER, 971' left of centerline. **Rwy 34**, Tree 106' AGL/348' MSL, 2307' from DER, 1038' left of centerline. Tree 121' AGL/370' MSL, 3190' from DER, 526' right of centerline. Aircraft 65' AGL/317' MSL, 186' from DER, 407' left of centerline. Tree 64' AGL/343' MSL, 2260' from DER, 1036' left of centerline. Building 40' AGL/321' MSL, 1668' from DER, 810' left of centerline.

MC MINNVILLE, OR

MC MINNVILLE MUNI (MMV)

AMDT 4 08325 (FAA)

TAKE-OFF MINIMUMS: **Rwy 4**, 400-1¼ or std. w/ min. climb of 238' per NM to 400, or alternatively, with standard take-off minimums and normal 200'/NM climb gradient, take-off must occur no later than 2000' prior to departure end of runway. **Rwy 17**, std. w/ min. climb of 300' per NM to 1200 or 1800-2½ for climb in visual conditions. **Rwy 22**, std. w/ min. climb of 303' per NM to 1400 or 1800-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 4**, climb heading 038° to intercept UBG R-170 to UBG VOR/DME, thence ...

Rwy 17,22, climbing left turn to intercept UBG R-183 to UBG VOR/DME, thence ... or for climb in visual conditions: cross Mc Minnville Muni at or above 1800 before proceeding on course. **Rwy 35**, climb heading 347° to intercept UBG R-221 to UBG VOR/DME, thence...

... continue climb in UBG VOR/DME holding pattern (S, left turns, 003° inbound) until reaching MEA for route of flight.

NOTE: **Rwy 4**, multiple trees beginning 2040' from departure end of runway, 353' left and 209' right of centerline, up to 100' AGL/339 feet MSL. **Rwy 17**, tree 1719' from departure end of runway, 456' right of centerline, 100' AGL/231' MSL. Tree 1760' from departure end of runway, 627' left of centerline, 100' AGL/257' MSL. **Rwy 22**, multiple trees beginning 282' from departure end of runway, 120' left and 144' right of centerline, up to 100' AGL/246' MSL. Tree 4047' from departure end of runway, 1319' left of centerline, 100' AGL/284' MSL. **Rwy 35**, multiple trees beginning 1551' from departure end of runway, 229' right of centerline, up to 100' AGL/277' MSL.

MEDFORD, OR

ROGUE VALLEY INTL-MEDFORD (MFR)

AMDT 9 09015 (FAA)

TAKE-OFF MINIMUMS: **Rwys 9,27**, NA-Obstacles.

Rwy 14, std. w/ min. climb of 430' per NM to 4600, or 2900-3 for climb in visual conditions. **Rwy 32**, std. with a min. climb of 260' per NM to 6800, or 2900-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 14**, climbing right turn direct OED VORTAC, or for climb in visual conditions, cross Rogue Valley Intl airport at or above 4100 before proceeding direct OED VORTAC...

Rwy 32, climbing right turn direct OED VORTAC, or for climb in visual conditions, cross Rogue Valley Intl airport at or above 4100 before proceeding direct OED VORTAC...

...all aircraft climb in OED VORTAC holding pattern (hold NW, right turns, 153° inbound) to cross OED VORTAC at or above 6400.

MISSOULA, MT

MISSOULA INTL (MSO)

AMDT 8 08213 (FAA)

TAKE-OFF MINIMUMS: **Rwys 7,25**, NA-Obstacles.

DEPARTURE PROCEDURE: **Rwys 11, 29**, use GRZLY DEPARTURE.

MOSES LAKE, WA

GRANT COUNTY INTL

NOTE: **Rwy 14R**, antenna 3902' from departure end of runway, 828' right of centerline, 98' AGL/1268' MSL.

Rwy 18, pole 405' from departure end of runway, 334' right of centerline, 30' AGL/1209' MSL. Windsock 496' from departure end of runway, 371' left of centerline, 16' AGL/1195' MSL. **Rwy 32L**, pole 1326' from departure end of runway, 373' left of centerline, 22' AGL/1202' MSL.

MOUNTAIN HOME AFB (KMUO)

MOUNTAIN HOME, ID 07270

Rwy 12,30, 6700-3*

* Or standard with minimum climb of 270'/NM to 9100.

TAKE-OFF OBSTACLES: **Rwy 12**, Terrain 0' AGL/3028' MSL, 1224' from DER, 744' right of centerline. Terrain 0' AGL/3035' MSL, 824' from DER, 721' right of centerline. Terrain 0' AGL/3035' MSL, 507' from DER, 636' right of centerline. Terrain 0' AGL/3022' MSL, 49' from DER, 202' right of centerline. Terrain 0' AGL/3018' MSL, 148' from DER, 328' left of centerline. Terrain 0' AGL/3016' MSL, 300' from DER, 580' left of centerline. Road/Vehicle 15' AGL/3044' MSL, 1147' from DER, 794' right of centerline. Power pole 35' AGL/3069' MSL, 2914' from DER, 940' right of centerline. Tower 30' AGL/3032' MSL, 1067' from DER, 902' right of centerline. Tower 28' AGL/3039' MSL, 1172' from DER, 796' right of centerline. Tower 45' AGL/3054' MSL, 2152' from DER, 1478' left of centerline. **Rwy 30**, Terrain 0' AGL/2995' MSL, 40' from DER, 492' left of centerline. Terrain 0' AGL/2999' MSL, 370' from DER, 467' right of centerline. Terrain 0' AGL/3006' MSL, 507' from DER, 636' right of centerline. Terrain 0' AGL/3007' MSL, 570' from DER, 653' right of centerline. Road/Vehicle 35' AGL/3019' MSL, 954' from DER, 773' left of centerline.

MOUNTAIN HOME, ID

MOUNTAIN HOME MUNI

TAKE-OFF MINIMUMS: **Rwy 10**, 3500-2 or std. with a min. climb of 305' per NM to 7300. **Rwy 28**, 3500-2 or std. with a min. climb of 290' per NM to 7300.

DEPARTURE PROCEDURE: **Rwy 10**, climbing left turn direct STI NDB. **Rwy 28**, climbing right turn direct STI NDB. All aircraft departing STI NDB bearing 080° CW 340° climb on course. All others continue climb in hold (E, left turns, 271° inbound) to cross STI NDB at or above 7300.

NAMPA, ID

NAMPA MUNI

DEPARTURE PROCEDURE: **Rwy 11**, climbing right turn direct MPA NDB, continue climb in MPA holding pattern (NW, right turns, 145° inbound). Depart MPA NDB at or above 5500 before proceeding on course.

Rwy 29, climb runway heading to 3700 then climbing right turn direct MPA NDB, continue climb in MPA holding pattern (NW, right turns, 145° inbound). Depart MPA NDB at or above 5500 before proceeding on course.

NOTE: **Rwy 11**, 70' AGL tree, 1225' from departure end of runway, 90' right of centerline.

NEWCASTLE, WY

MONDELL FIELD (ECS)

AMDT 3A 09267 (FAA)

TAKE-OFF MINIMUMS: **Rwy 5,17,23,35, NA. Rwy 13**, 200-1 or std. with a min. climb of 275' per NM to 4400'.
Rwy 31, 300-1 or std. with a min. climb of 300' per NM to 4600.

DEPARTURE PROCEDURE: **Rwy 31**, climbing left turn. **All aircraft** climb to 5500 via ECS R-143, then climbing right turn direct ECS VOR, continue climb on course.

NOTE: **Rwy 13**, fence posts, beginning 299' from DER, 218' left of centerline, up to 10' AGL/4190' MSL. Light on antenna 1951' from DER, 879' left of centerline, 84' AGL/4244' MSL. **Rwy 31**, multiple poles, beginning 74' from DER, 237' right of centerline, up to 20' AGL/4200' MSL. Bush 5787' from DER, 1441' right of centerline, 13' MSL/4363' MSL. Railroad 735' from DER, 314' right of centerline 30' AGL/4202' MSL. Road 207' from DER, 254' right of centerline, 15' AGL/4187' MSL.

NEWPORT, OR

NEWPORT MUNI

TAKE-OFF MINIMUMS: **Rwy 2, NA. Rwy 16**, 500-2 or std. with a min. climb of 310' per NM to 800.

DEPARTURE PROCEDURE: **Rwy 2, NA. Rwy 16**, turn right. **Rwy 34**, turn left. Aircraft departing via ONP R-180 CW R-320 depart on course. All others continue climbing via ONP R-200 to 1500 then climbing left turn direct ONP VORTAC. Cross ONP VORTAC at or above 2200.

NORTH BEND, OR

SOUTHWEST OREGON RGNL (OTH)

AMDT 4B 09071 (FAA)

TAKE-OFF MINIMUMS: **Rwy 4**, 800-2 or std. with a min. climb of 340' per NM to 900. **Rwy 13**, 800-2. **Rwys 16,34**, NA-Rwy closed. **Rwy 31**, 300-2 or std. with a min. climb of 240' per NM to 400.

DEPARTURE PROCEDURE: **Rwys 4,31**, turn left. **Rwys 13,22**, turn right. **All aircraft** climb via OTH VORTAC R-250 to 1300 then climbing right turn direct OTH VORTAC.

NOTE: **Rwy 13**, spire 3468' from departure end of runway, 1128' left of centerline, 55' AGL/243' MSL, multiple trees beginning 3068' from departure end of runway, 78' left of centerline, up to 132' AGL/291' MSL.

OAK HARBOR, WA

A J EISENBERG (OKH)

ORIG-A 09071 (FAA)

TAKE-OFF MINIMUMS: **Rwy 7**, 300-1. **Rwy 25**, 300-1 DEPARTURE PROCEDURE: **Rwy 7**, climb via heading 071° to 2000, then climbing right turn direct CVV VOR/DME. Continue climb on course. **Rwy 25**, climb via heading 251° to 2100, then climbing left turn direct CVV VOR/DME. Continue climb on course.

NOTE: **Rwy 7**, multiple trees beginning 1167' from DER, 212' left of centerline, up to 80' AGL/319' MSL. Multiple trees beginning 664' from DER, 208' right of centerline, up to 80' AGL/299' MSL. Fence 612' from DER, right and left of centerline, 10' AGL/229' MSL. Multiple bushes beginning 240' from DER, 64' left of centerline, up to 8' AGL/227' MSL. **Rwy 25**, cars on road 87' from DER, left and right of centerline, up to 15' AGL/174' MSL. Multiple trees beginning 2271' from DER, right and left of centerline, up to 80' AGL/279' MSL.

OLYMPIA, WA

OLYMPIA RGNL (OLM)

AMDT 5A 09127 (FAA)

TAKE-OFF MINIMUMS: **Rwy 17**, 300-2 or std. with a min. climb of 706' per NM to 600, or 2200-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 8**, climb heading 085° to 1000 then climbing left turn direct OLM VORTAC, thence... **Rwy 17**, climb heading 172° to 1200 then climbing right turn direct OLM VORTAC, thence... or climb in visual conditions to cross OLM VORTAC at or above 2300, thence... **Rwys 5,26,35**, climbing right turn direct OLM VORTAC, thence...

...continue climb in OLM VORTAC holding pattern (south, right turn, 356° inbound) to cross OLM VORTAC at or above MEA/MCA for route of flight.

NOTE: **Rwy 8**, multiple trees beginning 880' from DER, 214' left of centerline, up to 100' AGL/343' MSL. Multiple trees beginning 1636' from DER, 131' right of centerline, up to 100' AGL/320' MSL. **Rwy 17**, multiple trees beginning 1008' from DER, 24' left of centerline, up to 100' AGL/490' MSL. Multiple trees beginning 752' from DER, 3' right of centerline, up to 100' AGL/370' MSL. **Rwy 26**, multiple trees and WSK on building beginning 475' from DER, 595' left of centerline, up to 100' AGL/330' MSL. Multiple trees beginning 338' from DER, 339' right of centerline, up to 100' AGL/309' MSL. **Rwy 35**, multiple trees beginning 2176' from DER, 198' left of centerline, up to 100' AGL/313' MSL. Multiple trees and field light on hangar beginning 657' from DER, 621' right of centerline, up to 100' AGL/315' MSL.

OMAK, WA

OMAK

TAKE-OFF MINIMUMS: **Rwy 17**, 2200-2 or std. with a min. climb of 300' per NM to 4200. **Rwy 35**, NA.

DEPARTURE PROCEDURE: **Rwy 17**, use GETNG RNAV DEPARTURE. **Rwy 35**, NA.

ONTARIO, OR

ONTARIO MUNI (ONO)

AMDT 3 08325 (FAA)

DEPARTURE PROCEDURE: **Rwy 32**, climb to 9600 on a heading between 010° CW to 141° from departure end of runway or minimum climb of 280' per NM to 9600 for all other courses.

NOTE: **Rwy 14**, multiple trees, poles, and buildings beginning 90' from departure end of runway, 157' right of centerline up to 120' AGL/2314' MSL. Multiple trees, poles, and buildings beginning 502' from departure end of runway, 506' left of centerline up to 120' AGL/2314' MSL. **Rwy 32**, multiple trees, poles, and buildings beginning 340' from departure end of runway, 405' left of centerline up to 100' AGL/2458' MSL. Multiple trees, poles, and buildings beginning 2' from departure end of runway, 472' right of centerline up to 100' AGL/2431' MSL.

PASCO, WA

TRI-CITIES

DEPARTURE PROCEDURE: **All runways**, climb runway heading to 1000, thence... **Rwy 12**, turn left. All others turn right. **All aircraft** climb direct PSC VOR/DME before proceeding on course.

PENDLETON, OR

EASTERN OREGON RGNL AT PENDLETON (PDT)

AMDT 3 09183 (FAA)

DEPARTURE PROCEDURE: **Rwys 7, 29, 34**, climbing left turn direct PDT VORTAC, thence...

Rwys 11, 16, climbing right turn direct PDT VORTAC, thence...

Rwy 25, climb direct PDT VORTAC, thence...

...continue climb in PDT VORTAC holding pattern (West, left turn, 073° inbound) to cross PDT VORTAC at or above MEA before proceeding on course.

NOTE: **Rwy 16**, multiple trees beginning 232' from DER, 348' right of centerline, up to 100' AGL/1579' MSL.

Rwy 25, multiple antennas and terrain beginning 203' from DER, 259' left of centerline, up to 13' AGL/1512' MSL. **Rwy 29**, terrain 189' from DER, 247' left of centerline, 1493' MSL.

PINEDALE, WY

PINEDALE/RALPH WENZ FIELD (PNA)

AMDT 2 09295 (FAA)

TAKE-OFF MINIMUMS: **Rwy 29**, std. with a min. climb of 310' per NM to 8300, or 4900-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 11**, climbing right turn to 10000 via heading 190° and BPI R-040 to BPI VOR/DME before proceeding on course. **Rwy 29**, climbing left turn to 10000 via heading 230° and BPI R-020 to BPI VOR/DME before proceeding on course or for climb in visual conditions: cross Pinedale/Ralph Wenz Field at or above 11800 before proceeding on course.

PLENTYWOOD, MT

SHER-WOOD

NOTE: **Rwy 12**, multiple bushes beginning 47' from departure end of runway, 71' left of centerline, up to 12' AGL/2251' MSL. Multiple bushes beginning 362' from departure end of runway, 514' right of centerline, up to 12' AGL/2251' MSL. **Rwy 30**, multiple bushes and road beginning 68' from departure end of runway, 75' right of centerline, up to 12' AGL/2303' MSL. Multiple bushes beginning 217' from departure end of runway, 60' left of centerline, up to 12' AGL/2296' MSL.

POCATELLO, ID

POCATELLO RGNL (PIH)

AMDT 7 09351 (FAA)

DEPARTURE PROCEDURE: use KNURL ONE DEPARTURE.

POLSON, MT

POLSON

TAKE-OFF MINIMUMS: **Rwy 18**, N/A-extremely precipitous terrain. **Rwy 36**, standard with a min. climb of 270' per NM to 8400'.

DEPARTURE PROCEDURE: **Rwy 36**, Use ANGIL RNAV DEPARTURE.

NOTES: **Rwy 36**, Road 509' from departure end of runway, 2955' MSL. Trees 2.39 NM from departure end of runway, 3383' left of centerline, 100' AGL/3179 MSL. Rapidly rising precipitous terrain left and right of centerline running along southern Flathead River ridges.

PORT ANGELES, WA

PORT ANGELES CGAS

DEPARTURE PROCEDURE: Copter departure, climb from landing area direct to EDIZ HOOK NDB.

Continue climb in holding pattern (NE, right turns, 237° inbound) to MEA for direction of flight.

WILLIAM R FAIRCHILD INTL

DEPARTURE PROCEDURE: **Rwys 8, 13, 26, 31**, use WATTFIVE DEPARTURE.

PORTLAND, OR

PORTLAND INTL (PDX)

AMDT 6 09015 (FAA)

TAKE-OFF MINIMUMS: **Rwy 3**, 500-3 or std. w/ min. climb of 400' per NM to 600. **Rwy 10L/R**, std. w/ min. climb of 270' per NM to 2900. **Rwy 21**, std. w/ min. of 310' per NM to 1800.

DEPARTURE PROCEDURE: **Rwy 3**, climb heading 025° to 700, then climbing left turn direct BTG VORTAC, thence... **Rwys 10L, 10R**, climb heading 099° to 500, then climbing left turn direct BTG VORTAC, thence... **Rwy 21**, climb heading 205.03 to 500, then climbing right turn direct BTG VORTAC, thence... **Rwys 28L, 28R**, climb heading 279° to 500, then climbing right turn direct BTG VORTAC, thence... continue climb in BTG VORTAC holding pattern (hold NW, right turns, 149° inbound) to cross BTG VORTAC at or above MCA/MEA before proceeding on course.

NOTE: **Rwy 3**, signs, tower, trees, and vehicle on road beginning 468' from departure end of runway, 28' left of centerline, up to 100' AGL/449' MSL. Poles, trees, and vehicle on road beginning 609' from departure end of runway, 7' left of centerline, up to 100' AGL/416' MSL. **Rwy 10L**, rising terrain and vehicle on road beginning 7' from departure end of runway, 376' left of centerline, up to 17' AGL/60' MSL. **Rwy 10R**, pole 1996' from departure end of runway, 758' right of centerline, 54' AGL/74' MSL. note: **Rwy 21**, trees beginning 1319' from departure end of runway, 155' right of centerline, up to 100' AGL/318' MSL. Poles and trees beginning 353' from departure end of runway, 36' left of centerline, up to 100' AGL/317' MSL. **Rwy 28L**, trees 1873' from departure end of runway, 836' left of centerline, 50' AGL/88' MSL.

Rwy 28R, multiple signs, poles, and vehicle on road beginning 876' from departure end of runway, 654' right of centerline, up to 27' AGL/69' MSL.

PORTLAND, OR (CON'T)

PORTLAND-HILLSBORO

TAKE-OFF MINIMUMS: **Rwy 30**, 200-1¼ or std. with a min. climb of 223' per NM to 500. Alternatively, with standard take-off minimums and a normal 200'/NM climb gradient, take-off must occur no later than 1600' prior to departure end of runway.

DEPARTURE PROCEDURE: **Rwy 12**, climbing right turn direct UBG VOR/DME... **Rwys 2, 20, 30**, climbing left turn direct UBG VOR/DME...

...all aircraft climb in UBG VOR/DME holding pattern (west, right turn, 108° inbound) to cross UBG VOR/DME at or above MEA/MCA for direction of flight before proceeding on course.

NOTE: **Rwy 2**, multiple roads beginning 246' from departure end of runway, 3' right of centerline, up to 15' AGL/220' MSL. **Rwy 12**, multiple trees beginning 1842' from departure end of runway, 222' left of centerline, up to 125' AGL/324' MSL. Multiple trees beginning 3629' from departure end of runway, 46' right of centerline, up to 143' AGL/332' MSL. **Rwy 20**, multiple trees and pole beginning 967' from departure end of runway, 118' left of centerline, up to 93' AGL/292' MSL. Vent of hangar 63' from departure end of runway, 428' left of centerline, 26' AGL/225' MSL. Multiple trees and antenna on building beginning 965' from departure end of runway, 449' right of centerline, up to 74' AGL/273' MSL. **Rwy 30**, multiple trees beginning 1664' from departure end of runway, 623' right of centerline, up to 194' AGL/363' MSL. Pole 702' from departure end of runway, 603' left of centerline, 26' AGL/215' MSL.

PORTLAND-TROUTDALE

TAKE-OFF MINIMUMS: **Rwy 7**, 3600-2 or std. with a min. climb of 380' per NM to 4100. **Rwy 25**, 900-2 or std. with a min. climb of 360' per NM to 1000.

DEPARTURE PROCEDURE: **Rwy 7**, turn left.

Rwy 25, turn right. All aircraft climb via BTGR-125 direct BTG VORTAC. Continue climb on BTG R-329 within 10 NM to cross BTG VORTAC at or above: BTG R-355 CW R-055 or R-085 CW R-115 5000; all others 2500.

POWELL, WY

POWELL MUNI

TAKE-OFF MINIMUMS: **Rwy 3, 16, 21, 34**, NA.

DEPARTURE PROCEDURE: **Rwy 13**, turn right.

Rwy 31, turn left. All aircraft climb direct COD VOR/DME. Aircraft departing COD R-350 CW R-170 climb on course. All others continue climb in COD VOR/DME holding pattern (N, left turns, 189° inbound) to cross COD VOR/DME at or above 8800

PRINEVILLE, OR

PRINEVILLE (S39)

AMDT 1 08213 (FAA)

TAKE-OFF MINIMUMS: **Rwy 10**, std. w/min. climb of 350 feet per NM to 6500, or 2400-3 for climb in visual conditions. **Rwy 15**, std. w/min. climb of 470' per NM to 6200, or 2400-3 for climb in visual conditions. **Rwy 28**, std. w/min. climb of 450' per NM to 6700, or 2400-3 for climb in visual conditions. **Rwy 33**, std. w/min. climb of 380' per NM to 6700, or 2400-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 10**, climb heading 102° to 6500 before proceeding on course or for climb in visual conditions cross Prineville Muni airport at or above 5600 before proceeding on course. **Rwy 15**, climb heading 154° to 6200 before proceeding on course or for climb in visual conditions cross Prineville Muni airport at or above 5600 before proceeding on course. **Rwy 28**, climb heading 282° to 6700 before proceeding on course or for climb in visual conditions cross Prineville Muni airport at or above 5600 before proceeding on course. **Rwy 33**, climb heading 334° to 6700 before proceeding on course or for climb in visual conditions cross Prineville Muni airport at or above 5600 before proceeding on course.

NOTE: **Rwy 10**, trees beginning 2693' from departure end of runway, 545' right of centerline, up to 100' AGL/3339' MSL. **Rwy 15**, trees beginning 1129' from departure end of runway, 697' right of centerline, up to 100' AGL/3319' MSL. **Rwy 28**, trees beginning 1803' from departure end of runway, 74' right of centerline, up to 100' AGL/3319' MSL. **Rwy 33**, trees beginning 2636' from departure end of runway, 379' right of centerline, up to 100' AGL/3319' MSL.

PULLMAN-MOSCOW, WA

PULLMAN-MOSCOW RGNL

TAKE-OFF MINIMUMS: **Rwy 5**, 300-1¼ with a min. climb of 278' per NM to 4400, or 4600-3 for climb in visual conditions. **Rwy 23**, 300-1 or std. with a min. climb of 361' per NM to 4700.

DEPARTURE PROCEDURE: **Rwy 5**, climbing left turn direct PUW VOR/DME, cross PUW VOR/DME at or above 4700, continue climb in PUW VOR/DME holding pattern (SW, left turn, 032° inbound) to cross PUW VOR/DME at or above MEA for direction of flight, or for climb in visual conditions; cross Pullman-Moscow Rgnl at or above 4500. **Rwy 23**, climbing left turn via PUW VOR/DME R-021, cross PUW VOR/DME at or above 4700, continue climb in PUW VOR/DME holding pattern (SW, left turn, 032° inbound) to cross PUW VOR/DME at or above MEA for direction of flight.

NOTE: **Rwy 5**, multiple trees and terrain left and right of centerline, beginning 614' from departure end of runway, 424' right of centerline up to 50' AGL/2677' MSL. Terrain 3503' from departure end of runway, 770' left of centerline, 50' AGL/2608' MSL. **Rwy 23**, multiple trees, terrain, fences, poles, and tanks beginning 669' from departure end of runway, 412' right of centerline, up to 52' AGL/2769' MSL.

PUYALLUP, WA

PIERCE COUNTY-THUN FIELD (PLU)
AMDT 1A 09071 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16, 34**, 300-1.

DEPARTURE PROCEDURE: **Rwy 16**, climbing right turn. **Rwy 34**, climb runway heading. **All aircraft** climb via SEAR-158 to COTNY INT/SEA 18.1 DME. Continue in COTNY holding pattern (Hold S, left turns, 338° inbound) to depart COTNY at or above: 001° CW 090° 3500, 090° 3500, 091° CW 120° 10,400, 121° CW 170° 2700, 171° CW 360° 1500.

NOTE: **Rwy 16**, light pole 511' from DER, 567' right of centerline, 40' AGL/552' MSL. Multiple poles on building beginning 187' from DER, 416' left of centerline, up to 575' MSL. Multiple trees beginning 363' from DER, 656' left of centerline to 540' right of centerline, up to 662' MSL. Vehicles on road beginning 1149' from DER, 512' right of centerline, up to 15' AGL/582' MSL. Terrain beginning 1293' from DER, 529' left of centerline to 352' right of centerline, up to 581' MSL. Pipe 1520' from DER, 303' left of centerline, 574' MSL. **Rwy 34**, multiple trees beginning 58' from DER, 591' left of centerline to 1029' right of centerline, up to 694' MSL. Flagpole 1155' from DER, 464' left of centerline, 578' MSL. Building 564' from DER, 410' left of centerline, 555' MSL.

RAWLINS, WY

TAKEALINS MUNI/HARVEY FIELD

TAKE-OFF MINIMUMS: **Rwy 4**, 600-2 or std. with a min. climb of 440' per NM to 7500. **Rwy 22**, 1500-2 or std. with a min climb of 365' per NM to 8700. **Rwys 10, 28**, NA.

DEPARTURE PROCEDURE: **Rwy 4**, turn right.

Rwy 22, turn left. Climb to 10000 via RWL R-200 and CKW R-080 to CKW VOR/DME then via assigned route. Aircraft departing eastbound V4 or V6 climb via RWL R-200 to assigned route then climb on course.

REDMOND, OR

ROBERTS FIELD (RDM)
AMDT 5 09183 (FAA)

TAKE-OFF MINIMUMS: **Rwy 22**, std. w/ min. climb of 269' per NM to 4700. **Rwy 28**, std. w/ min. climb of 276' per NM to 4800.

DEPARTURE PROCEDURE: **Rwy 4**, climbing left turn via heading 265° and DSD R-047 to DSD VORTAC, climb in DSD VORTAC holding pattern (hold North, right turn, 168° inbound) to cross DSD VORTAC at or above MEA for route of flight before proceeding on course. **Rwy 10**, climbing right turn via heading 240° and DSD R-090 to DSD VORTAC, climb in DSD VORTAC holding pattern (hold North, right turn, 168° inbound) to cross DSD VORTAC at or above MEA for route of flight before proceeding on course. **Rwy 22**, climb heading 222° and DSD R-090 to DSD VORTAC, climb in DSD VORTAC holding pattern (hold North, right turn, 168° inbound) to cross DSD VORTAC at or above MEA for route of flight before proceeding on course. **Rwy 28**, climbing left turn via heading 275° and DSD R-045 to DSD VORTAC, climb in DSD VORTAC holding pattern (hold North, right turn, 168° inbound) to cross DSD VORTAC at or above MEA for route of flight before proceeding on course.

NOTE: **Rwy 28**, numerous trees beginning 1' from DER, 356' right of centerline, 12' AGL/3079' MSL. Tree 364' from DER, 448' left of centerline, 15' AGL/3054' MSL.

RENTON, WA

RENTON MUNI (RNT)
AMDT 7 09351 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, std. with a min. climb of 405' per NM to 800, or 1100-2½ for climb in visual conditions. **Rwy 34**, 500-2¼ or std. with a min. climb of 315' per NM to 700.

DEPARTURE PROCEDURE: **Rwy 16**, climb heading 157° to 700, then climbing right turn direct SEA VORTAC, thence..., or for climb in visual conditions: cross Renton Muni Airport westbound at or above 1000 MSL, then proceed on SEAR R-029 to SEA VORTAC, thence... **Rwy 34**, Climb heading 337° to 700, then climbing left turn direct SEA VORTAC thenceClimb in SEA VORTAC holding pattern (East, left turns, 290° inbound) to cross SEA VORTAC at or above MEA/MCA for direction of flight.

NOTES: **Rwy 16**, trees, towers, lights and blast shield beginning 185' from DER, 4' left of centerline, up to 100' AGL/574' MSL. Trees, lights and sign beginning 40' from DER, 54' right of centerline, up to 100' AGL/297' MSL. **Rwy 34**, Trees and terrain beginning 1.6 NM from DER, 104' left of centerline, up to 100' AGL/485' MSL. Trees, terrain and wood piling beginning 75' from DER, 7' right of centerline, up to 100' AGL/426' MSL.

REXBURG, ID

REXBURG-MADISON COUNTY

DEPARTURE PROCEDURE: **Rwy 17**, climbing right turn. **Rwy 35**, climbing left turn. **All aircraft** climb via IDA VOR/DME R-015 to RIGBY Int to MEA for route of flight before proceeding on course.

NOTE: **Rwy 17**, 100' AGL trees 125' from departure end of runway, 350' left of centerline. **Rwy 35**, 100' AGL trees 350' from departure end of runway, 450' right of centerline. 100' AGL trees 750' from departure end of runway, 500' left of centerline.

RICHLAND, WA

RICHLAND

TAKE-OFF MINIMUMS: **Rwy 1**, 200-1 or std. w/min. climb of 310' per NM to 700. **Rwy 19**, std. w/min. climb of 480' per NM to 2300, or 1800-2½ for climb in visual conditions. **Rwy 26**, 500-2½ or std. w/min. climb of 309' per NM to 1000.

DEPARTURE PROCEDURE: **Rwy 1**, climbing right turn via heading 070° and PSC R-301 to PSC VOR/DME, thence...**Rwy 8**, climbing right turn direct PSC VOR/DME, thence...**Rwy 19**, climbing right turn via heading 040° and PSC R-269 to PSC VOR/DME, or for climb in visual conditions: cross Richland Airport at or above 2000 then proceed on PSC R-269, to PSC VOR/DME thence...**Rwy 26**, climbing right turn via heading 070° and PSC R-287 to PSC VOR/DME, thence...

...climb in PSC VOR/DME holding pattern (hold East, right turn, 291° inbound) to cross PSC VOR/DME at or above MEA for route of flight before proceeding on course.

NOTE: **Rwy 1**, crane and multiple poles 752' from departure end of runway, 477' right of centerline, up to 110' AGL/520' MSL. Trees 43' from departure end of runway, 414' left of centerline, 100' AGL/407' MSL. **Rwy 8**, multiple trees and railroad beginning 400' from departure end of runway, 252' right of centerline, up to 100' AGL/469' MSL. Multiple trees and railroad beginning 204' from departure end of runway, 241' left of centerline, up to 100' AGL/469' MSL. **Rwy 19**, multiple trees 64' from departure end of runway, 169' right of centerline, up to 100' AGL/679' MSL. Multiple trees, terrain, and buildings 22' from departure end of runway, 30' left of centerline, up to 100' AGL/479' MSL. **Rwy 26**, multiple trees, fence, and terrain beginning 458' from departure end of runway, 230' left of centerline, up to 100' AGL/839' MSL. Multiple posts, antenna, and terrain beginning 164' from departure end of runway, 255' right of centerline, up to 18' AGL/417' MSL.

RIVERTON, WY

RIVERTON RGNL (RIW)

AMDT 1 10042 (FAA)

DEPARTURE PROCEDURE: **Rwys 1, 10, 19, 28**, climbing right turn direct RIW VOR/DME. **All Aircraft** climb in RIW holding pattern (hold East, right turns, 287° inbound) to MEA for direction of flight.

NOTES: **Rwy 1**, sage brush beginning 35' from DER, left and right of centerline, up to 3' AGL/5499' MSL. **Rwy 10**, sage brush beginning 20' from DER, left and right of centerline, up to 3' AGL/5466' MSL. **Rwy 19**, sage brush beginning 49' from DER, 171' right of centerline, up to 3' AGL/5479' MSL. Windstocks beginning 154' from DER, 268' right of centerline, up to 28' AGL/5468' MSL. **Rwy 28**, sage brush, tower, and pole beginning 54' from DER, 154' right of centerline, up to 59' AGL/5679' MSL. Sage brush, fence, and poles beginning 132' from DER, 27' left of centerline, up to 67' AGL/5647' MSL.

ROCK SPRINGS, WY

ROCK SPRINGS-SWEETWATER COUNTY (RKS)

AMDT 6 10098 (FAA)

DEPARTURE PROCEDURE: **Rwy 3**, climb heading 032° to 8000 then climbing left turn direct OCS VOR/DME, continue climb in OCS VOR/DME holding pattern (hold East, right turns, 260° inbound) to cross OCS VOR/DME at or above MEA for route of flight. **Rwy 9**, climb heading 090° to 8200 then climbing left turn direct OCS VOR/DME, continue climb in OCS VOR/DME holding pattern (hold East, right turns, 260° inbound) to cross OCS VOR/DME at or above MEA for route of flight. **Rwy 21**, climb heading 212° to 8400, then climbing right turn direct OCS VOR/DME, continue climb in OCS VOR/DME holding pattern (hold East, right turns, 260° inbound) to cross OCS VOR/DME at or above MEA for route of flight. **Rwy 27**, climb heading 270° to 7900, then climbing right turn via OCS R-291 to OCS VOR/DME, continue climb in OCS VOR/DME holding pattern (hold East, right turns, 260° inbound) to cross OCS VOR/DME at or above MEA for route of flight.

NOTE: **Rwy 3**, vehicle on road beginning 22' from DER, 120' left of centerline, up to 20' AGL/6760' MSL, bushes beginning 178' from DER, 517' right of centerline, up to 15' AGL/6755' MSL. **Rwy 21**, bush 53' from DER, 221' left of centerline, 15' AGL/6737' MSL.

RONAN, MT

RONAN (7S0)

ORIG 09295 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, std. w/min. climb of 260' per NM to 9900 or 6100-3 for climb in visual conditions. **Rwy 34**, std. w/min. climb of 250' per NM to 9900 or 6100-3 in visual conditions.

DEPARTURE PROCEDURE: **Rwy 16**, climb to 8800 on a heading between 177° CW to 336° from DER or for climb in visual conditions, cross Ronan airport at or above 9000 before proceeding on course. **Rwy 34**, climb to 8800 on a heading between 336° CCW to 177° from DER or for climb in visual conditions, cross Ronan airport at or above 9000 before proceeding on course.

NOTE: **Rwy 16**, tree 485' from DER, 386' left of centerline 50' AGL/3149' MSL. **Rwy 34**, building 158' from DER, 370' left of centerline 40' AGL/3130' MSL. Tree 1358' from DER, 556' left of centerline 50' AGL/3149' MSL.

ROSEBURG, OR

ROSEBURG RGNL (RBG)

AMDT 5A 08297 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, std. with a min. climb of 642' per NM to 2000, or 1700-3 for climb in visual conditions. **Rwy 34**, std. with a min. climb of 760' per NM to 2000, or 1700-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 16**, climb direct RBG VOR/DME, or climb in visual conditions to cross Roseburg Airport southbound at or above 2200, then direct RBG VOR/DME. Then via RBG R-157 and right turn direct RBG VOR/DME to cross at or above the MCA or MEA for route of flight. **Rwy 34**, climb via heading 342° to 4000, or climb in visual conditions to cross Roseburg Airport northbound at or above 2200 and then via heading 342° to 4000. Then climbing left turn direct RBG VOR/DME, to cross RBG VOR/DME at or above MCA or MEA for route of flight. Aircraft that have not reached the MCA or MEA for route of flight continue climb via RBG R-157 and right turn direct RBG VOR/DME.

NOTE: **Rwy 16**, tower 1.56 NM from departure end of runway, 2231' right of centerline, 50' AGL/1201' MSL, tree 1.47 NM from departure end of runway, 1560' right of centerline, 21' AGL/980' MSL, tree 1.46 NM from departure end of runway, 1298' right of runway centerline, 45' AGL/964' MSL, pole 1.36 NM from departure end of runway, 921' right of centerline, 75' AGL/914' MSL, rod on airway beacon 1.29 NM from departure end of runway, 409' right of centerline, 52' AGL/891' MSL, tree 655' from departure end of runway, 347' right of runway centerline, 93' AGL/593' MSL, obstruction light on pole 691' from departure end of runway, 187' right of runway centerline, 117' AGL/557' MSL. **Rwy 34**, tree 1.10 NM from departure end of runway, 2003' left of runway centerline, 60' AGL/1179' MSL. Tree 5165' from departure end of runway, 1744' left of centerline, 64' AGL/1023' MSL. Obstruction light on pole 4850' from departure end of runway, 56' left of centerline, 15' AGL/894' MSL. Tree 4785' from departure end of runway, 48' left of runway centerline, 23' AGL/862' MSL. Tree 1.41 NM from departure end of runway, 1826' left of runway centerline, 17' AGL/896' MSL. Tree 4079' from departure end of runway, 508' left of runway centerline, 21' AGL/780' MSL. Tree 5067' from departure end of runway, 265' right of centerline, 43' AGL/802' MSL. Tree 4260' from departure end of runway, 345' right of centerline, 42' AGL/761' MSL. Tree 1465' from departure end of runway 329' right of runway centerline, 100' AGL/642' MSL. Tree 913' from departure end of runway, 217' right of runway centerline, 100' AGL/622' MSL. Tree 647' from departure end of runway, 345' right of runway centerline, 100' AGL/615' MSL. Hill 1065' from departure end of runway, 299' right of runway centerline 608' MSL. Trees beginning 60' from departure end of runway, 117' left of runway centerline, up to 16' AGL/554' MSL. Trees beginning 242' from departure end of runway, 209' right of runway centerline, up to 56' AGL/584' MSL. Vehicle on road 265' from departure end of runway, 229' right of runway centerline, 15' AGL/560' MSL. Multiple signs beginning 792' from departure end of runway, 550' left of runway centerline, up to 60' AGL/565' MSL. Bush 94' from departure end of runway, 228' right of runway centerline, 19' AGL/547' MSL. Bush 202' from departure end of runway, 92' left of centerline, 7' AGL/535' MSL. Pole 640' from departure end of runway, 354' left of runway centerline, 29' AGL/557' MSL.

SALEM, OR

MCNARY FIELD

TAKE-OFF MINIMUMS: **Rwy 13**, 600-2 or std. with a min. climb of 240' per NM to 800. **Rwy 16**, 600-2 or std. with a min. climb of 340' per NM to 800.

DEPARTURE PROCEDURE: Comply with SIDs or; **Rwys 31, 34**, turn right. **Rwy 16**, turn left. **Rwy 13**, climb heading 130°. **All aircraft** climb direct TURN O LOM/Int. Continue climb in holding (SE, left turns, 310° inbound) to cross TURN O LOM/INT at or above MEA for route of flight.

SALMON, ID

LEMHI COUNTY

TAKE-OFF MINIMUMS: **Rwy 17**, NA. **Rwy 35**, 4300-5 or std. with a min. climb of 390' per NM to 8000.

DEPARTURE PROCEDURE: **Rwy 17**, NA. **Rwy 35**, climb runway heading to 8000, then climbing left turn to 11,300 direct LKT VOR/DME before proceeding on course.

SANDPOINT, ID

SANDPOINT

TAKE-OFF MINIMUMS: **Rwy 1**, 4200-2 or std. with a min. climb of 520' per NM to 5800. **Rwy 19**, 2200-2 or std. with a min. climb of 480' per NM to 4600.

DEPARTURE PROCEDURE: **Rwy 1**, climbing right turn to COE VOR/DME via heading 200° and COE R-002. **Rwy 19**, climbing left turn to COE VOR/DME via heading 140° and COE R-002.

SARATOGA, WY

SHIVELY FIELD

TAKE-OFF MINIMUMS: **Rwy 23**, 400-1 or std. with a min. climb of 220' per NM to 7400.

DEPARTURE PROCEDURE: **Rwy 5**, turn left heading 280°. **Rwy 23**, turn right heading 340°. **All aircraft** climb to 9000 via 310° bearing from SAA NDB then continue climb on course.

SCAPPOOSE, OR

SCAPPOOSE INDUSTRIAL AIRPARK

DEPARTURE PROCEDURE: **Rwy 15**, climbing left turn direct BTG VORTAC. **Rwy 33**, climbing right turn direct BTG VORTAC. Aircraft departing BTG R-160 CW R-329 climbing left turn on course. All others climb in BTG VORTAC holding pattern (NW, right turns, 149° inbound) to cross BTG VORTAC at or above MEA/MCA for direction of flight.

NOTE: **Rwy 15**, 158' MSL tree 470' from departure end of runway, 499' right of centerline. **Rwy 33**, cross departure end of runway 33 at or above 35' AGL/90' MSL. 130' MSL tree 613' from departure end of runway, 414' right of centerline; 142' MSL trees 1343' from departure end of runway, 348' right of centerline.

SCOBEE, MT

SCOBEE

TAKE-OFF MINIMUMS: **Rwy 12**, std. with a min. climb of 280' per NM to 3400.

SEATTLE, WA

BOEING FIELD/KING COUNTY INTL

TAKE-OFF MINIMUMS: **Rwy 13L**, 500-3 w/ min. climb of 232' per NM to 800, or 1000-2½ for climb in visual conditions. **Rwy 13R**, std. w/ a min. climb of 476' per NM to 900, or 500-3 w/ a min. climb of 386' per NM to 900, or 1000-2½ for climb in visual conditions. **Rwy 31L**, std. w/ a min. climb of 386' per NM to 800, or 300-1½ w/ min. climb of 235' per NM to 800, or 1000-2 ½ for climb in visual conditions. **Rwy 31R**, std. w/ a min. climb of 334' per NM to 900, or 400-1¾ w/ min. climb of 216' per NM to 900, or 1000-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 13L/R**, climbing right turn. **Rwys 31L/R**, climbing left turn. All aircraft climb direct to SEA VORTAC, continue climb in SEA VORTAC holding pattern (hold east, left turns, 290° inbound) to cross SEA VORTAC at or above 3000. For climb in visual conditions cross Boeing Field/King County Intl Airport at or above 900, then climb to 3000 via SEAR-344 to SEA VORTAC, continue climb in SEA VORTAC holding pattern (hold east, left turns, 290° inbound) to cross SEA VORTAC at or above 3000.

NOTES: **Rwy 13L**, multiple trees, towers, antennas and building beginning 402' from departure end of runway, 411' left of centerline, up to 127' AGL/479' MSL.

Rwy 13R, multiple trees and poles beginning 35' from departure end of runway, 154' left of centerline, up to 66' AGL/485' MSL. Multiple trees and poles beginning 501' from departure end of runway, 3' right of centerline, up to 77' AGL/195' MSL. **Rwy 31L**, multiple trees, fence, and building beginning 250' from departure end of runway, 253' left of centerline, up to 71' AGL/101' MSL. Multiple trees and floodlights beginning 1245' from departure end of runway, 447' right of centerline, up to 71' AGL/239' MSL. **Rwy 31R**, multiple trees, hangers, towers, poles and building beginning 12' from departure end of runway, 389' right of centerline, up to 103' AGL/350' MSL. Multiple obstruction lights beginning 214' from departure end of runway, 99' left of centerline, up to 71' AGL/101' MSL.

SEATTLE-TACOMA INTL (SEA)

AMDT 4 08325 (FAA)

DEPARTURE PROCEDURE: **Rwys 16L, 16C, 16R**, climb to 1000 via heading 163°, then climbing right turn direct SEA VORTAC, thence...

Rwys 34L, 34C, 34R, climb to 1000 via heading 343°, then climbing left turn direct SEA VORTAC, thence...
...climb in SEA VORTAC holding pattern (hold SE, left turns, 310° inbound) to MEA/MCA for route of flight.

NOTE: **Rwy 16L**, trees beginning 2908' from departure end of runway, 1064' right of centerline, up to 100' AGL/476' MSL. **Rwy 16C**, trees beginning 4477' from departure end of runway, 484' right of centerline, up to 100' AGL/507' MSL. **Rwy 16R**, trees, antenna on building and light pole beginning 488' from departure end of runway, 436' left of centerline, up to 100' AGL/507' MSL. Trees beginning 1137' from departure end of runway, 587' right of centerline, up to 100' AGL/468' MSL. **Rwy 34L**, fence 189' from departure end of runway, 401' right of centerline, up to 12' AGL/420' MSL. Trees beginning 4010' from departure end of runway, 857' left of centerline, up to 100' AGL/522' MSL.

SHELBY, MT

SHELBY

TAKE-OFF MINIMUMS: **Rwy 5**, 200-1 ¼ or std. w/ min. climb of 212' per NM to 3700, or alternatively, w/ std. takeoff minimums and a normal 200'/NM climb gradient, takeoff must occur no later than 1300' prior to departure end of runway.

NOTE: **Rwy 5**, fence post 320' from departure end of runway, 162' right of centerline, 12' AGL/3455' MSL, truck on road beginning 515' from departure end of runway, 632' right of centerline, 17' AGL/3498' MSL, tree 1 NM from departure end of runway, 1242' left of centerline, 75' AGL/3604' MSL. **Rwy 11**, truck on road 906' from departure end of runway, 691' left of centerline, 17' AGL/3456' MSL, tree 1697' from departure end of runway, 26' right of centerline, 75' AGL/3495' MSL, tree 1561' from departure end of runway, 322' left of centerline, 75' AGL/3514' MSL, light standard 852' from departure end of runway, 174' left of centerline, 22' AGL/3451' MSL.

SHELTON, WA

SANDERSON FIELD

TAKE-OFF MINIMUMS: **Rwy 5**, std. w/ a min. climb of 312' per NM to 4000, or 1500-2½ for a climb in visual conditions. **Rwy 23**, std. w/ a min. climb of 414' per NM to 4000, or 1500-2½ for a climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 5**, climbing right turn to intercept SEA R-230 to CARRO intersection. Or for climb in visual conditions: Cross Sanderson Field northeast bound at or above 1600, thence via SEA R-230 to cross CARRO intersection at or above 4000. **Rwy 23**, climbing left turn to intercept SEA R-230 to CARRO intersection. Or for climb in visual conditions: Cross Sanderson Field northeast bound at or above 1600, thence via SEA R-230 to cross CARRO intersection at or above 4000.

NOTE: **Rwy 5**, multiple trees beginning 550' from departure end of runway, 107' left of centerline, up to 94' AGL/366' MSL. Multiple trees beginning 130' from departure end of runway, 70' right of centerline, up to 80' AGL/352' MSL. **Rwy 23**, multiple trees beginning 52' from departure end of runway, 149' left of centerline, up to 72' AGL/330' MSL. Multiple trees beginning 886' from departure end of runway, 153' right of centerline, up to 155' AGL/486' MSL.

SHERIDAN, WY

SHERIDAN COUNTY

TAKE-OFF MINIMUMS: **Rwy 5**, 700-3 or std. w/ min. climb of 318' per NM to 5100, or... **Rwy 14**, 800-3 or std. w/ min. climb of 263' per NM to 5100, or... **Rwy 23**, 900-3 or std. w/ min. climb of 348' per NM to 5100, or...
... 1400/3 for climb in visual conditions. Climb in visual conditions NA at night.

DEPARTURE PROCEDURE: **Rwy 5**, climbing left turn via SHR R-106 to SHR VORTAC, or climb in visual conditions to cross Sheridan County Airport northwestbound at or above 5300, then via SHR R-126 to SHR VORTAC, thence... **Rwy 14**, climbing left turn via heading 320° and SHR R-106 to SHR VORTAC, or climb in visual conditions to cross Sheridan County Airport northwestbound at or above 5300, then via SHR R-126 to SHR VORTAC, thence... **Rwy 23**, climbing right turn via SHR R-153 to SHR VORTAC, or climb in visual conditions to cross Sheridan County Airport northwestbound at or above 5300, then via SHR R-126 to SHR VORTAC, thence... **Rwy 32**, climb via heading 320° and SHR R-106 to SHR VORTAC, thence...
... climb in holding pattern (hold northwest, left turn, 133° inbound) to cross SHR VORTAC at or above airway MEA for route of flight.

NOTE: **Rwy 5**, multiple trees beginning 101' from departure end of runway, 188' left of centerline, up to 80' AGL/3991' MSL. **Rwy 23**, fence 1201' from departure end of runway, 10' left of centerline, 20' AGL/4060' MSL. Building 1949' from departure end of runway, 415' left of centerline, 17' AGL/4077' MSL. Tree 3337' from departure end of runway, 391' right of centerline, 43' AGL/4143' MSL. **Rwy 32**, antenna 53' from departure end of runway, 398' right of centerline, 20' AGL/4020' MSL.

SIDNEY, MT

SIDNEY-RICHLAND MUNI

TAKE-OFF MINIMUMS: **Rwy 28**, 400-2 or std. with a min. climb of 260' per NM to 2300.

SNOHOMISH, WA

HARVEY FIELD (S43)

ORIG 09127 (FAA)

TAKE-OFF MINIMUMS: **Rwys 15R, 33L**, NA-obstacles. **Rwy 15L**, std. w/ min. climb of 353' per NM to 1100, or 1200-2½ for climb in visual conditions. **Rwy 33R**, std. w/ min. climb of 475' per NM to 800, or 1200-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 15L**, climbing right turn on 344° course to WATON LOM, or for climb in visual conditions, cross Harvey Field at or above 1100 then proceed on 329° course to WATON LOM, thence... **Rwy 33R**, climb on 329° course to WATON LOM, or for climb in visual conditions, cross Harvey Field at or above 1100 then proceed on 329° course to WATON LOM, thence...

... aircraft departing WATON LOM on bearings 150° CW 340° from WATON LOM climb on course. Aircraft departing WATON LOM on bearings 340° CW 150° from WATON LOM, climb in holding pattern (South, left turns, 339° inbound) to cross WATON LOM at or above 4500 before proceeding on course.

NOTE: **Rwy 15L**, tree 81' from DER, 177' right of centerline, 40' AGL/106' MSL. Trees 685' from DER, left and right of centerline, up to 48' AGL/70' MSL. **Rwy 33R**, powerline 139' from DER, 226' left of centerline, 40' AGL/56' MSL. Tree 298' from DER, 205' right of centerline, 104' AGL/121' MSL. Tower 5708' from DER, 1956' right of centerline, 206' AGL/300' MSL.

SPOKANE, WA

FELTS FIELD (SFF)

AMDT 5 10098 (FAA)

TAKE-OFF MINIMUMS: **Rwy 3L**, std. w/min. climb of 450' per NM to 3600, or 2300-3 for climb in visual conditions. **Rwy 3R**, std. w/min. climb of 410' per NM to 3700, or 2300-3 for climb in visual conditions. **Rwy 21L**, std. w/min. climb of 375' per NM to 3200, or 2300-3 for climb in visual conditions. **Rwy 21R**, std. w/min. climb of 375' per NM to 3200, or 2300-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 3L, 3R**, climb heading 035° to 3600, then climbing right turn heading 210° and GEG R-050 to GEG VORTAC, or for climb in visual conditions: cross Felts Field Airport at or above 4100, then via heading 165° and GEG R-050 to GEG VORTAC. Cross GEG VORTAC at or above MCA/MEA for route of flight. **Rwys 21L, 21R**, climb heading 215° to 3200, then climbing left turn heading 190° and GEG R-050 to GEG VORTAC, or for climb in visual conditions: cross Felts Field Airport at or above 4100, then via heading 165° and GEG R-050 to GEG VORTAC. Cross GEG VORTAC at or above the MCA/MEA for route of flight.

NOTE: **Rwy 3L**, trees beginning 1853' from DER, 772' right of centerline, up to 100' AGL/2037' MSL. Trees beginning 3538' from DER, 529' left of centerline, up to 100' AGL/2339' MSL. Antenna, trees and transmission poles beginning 1.5 NM from DER, 16' left of centerline, up to 100' AGL/2579' MSL. Trees beginning 2.3 NM from DER, 723' right of centerline, up to 100' AGL/2499' MSL. **Rwy 3R**, hangar, NDB, and trees beginning 92' from DER, 269' right of centerline, up to 100' AGL/2040' MSL. Trees beginning 4685' from DER, 1033' left of centerline, up to 100' AGL/2339' MSL. Antenna, trees and transmission poles beginning 1.6 NM from DER, 525' left of centerline, up to 100' AGL/2559' MSL. Trees and transmission poles beginning 2.6 NM from DER, 214' right of centerline, up to 150' AGL/2570' MSL. **Rwy 21L**, elevator, pole on building and trees beginning 315' from DER, 302' left of centerline, up to 140' AGL/2080' MSL. **Rwy 21R**, poles and trees beginning 188' from DER, 13' right of centerline, up to 100' AGL/1982' MSL. Elevator, pole, hangar, and building beginning 203' from DER, 1' left of centerline, up to 140' AGL/2080' MSL. Terrain and trees beginning 3.1 NM from DER, 4904' left of centerline, up to 100' AGL/2559' MSL.

SPOKANE INTL

DEPARTURE PROCEDURE: **All aircraft** climb direct GEG VORTAC. Continue climb via R-208 within 10 miles to cross GEG VORTAC at or above: northeastbound V120-448, 5200; eastbound V2, 5200, southeast thru westbound climb on course.

STEVENSVILLE, MT

STEVENSVILLE

TAKE-OFF MINIMUMS: **Rwy 12**, do not exceed 210 knots until established on MSOR-163. **Rwy 30**, do not exceed 210 knots until established on MSOR-160.

DEPARTURE PROCEDURE: **Rwy 12**, climbing right turn via heading 335 and MSOR-163 to MSO VOR/DME climb in MSO VOR/DME holding pattern (southeast, right turn, 340° inbound) to 13000' before proceeding on course. **Rwy 30**, climbing right turn via heading 025° and MSOR-160 to MSO VOR/DME Climb in MSO VOR/DME holding pattern (southeast, right turn, 340° inbound) to 13000' before proceeding on course.

SUNRIVER, OR

SUNRIVER

TAKE-OFF MINIMUMS: **Rwy 18**, 300-1 or std. with a min. climb of 360' per NM to 4400. **Rwy 36**, 600-2 or std. with a min. climb of 240' per NM to 4900.

DEPARTURE PROCEDURE: **Rwy 18**, climb runway heading to 7000 then climbing left turn direct DSD VORTAC. **Rwy 36**, climb direct to DSD VORTAC. Then **all aircraft** climb on course.

TACOMA, WA

TACOMA NARROWS

TAKE-OFF MINIMUMS: **Rwy 35**, 400-1 or std. with a min. climb of 210' per NM to 400'.

DEPARTURE PROCEDURE: **Rwy 17**, turn right, climb via heading 230° to intercept OLM R-009 then direct OLM VORTAC. **Rwy 35**, turn left, climb via heading 270° to intercept SEA R-230 then direct CARRO INT. Continue climb in holding (SW, right turns, 047° inbound) to MEA or assigned altitude for route of flight.

THE DALLES, OR

COLUMBIA GORGE RGNL/THE DALLES MUNI

TAKE-OFF MINIMUMS: **Rwy 2**, CAT A,B 1100-2 or std. with a min. climb of 350' per NM to 1500. CAT C,D 2600-3 or std. with a min. climb of 475' per NM to 3100. **Rwy 7**, 900-3 or std. with a min. climb of 330' per NM to 1200. **Rwy 12**, 1400-3 or std. with a min. climb of 500' per NM to 2000. **Rwy 20**, 1800-3 or std. with a min. climb of 470' per NM to 2200. **Rwy 25**, NA. **Rwy 30**, 2900-3 or std. with a min. climb of 500' per NM to 2700.

DEPARTURE PROCEDURE: **Rwys 2,7**, climbing right turn heading 120°. **Rwy 12**, climb via runway heading. **Rwys 20, 30**, climbing left turn heading 120°. **All aircraft** intercept and climb southbound via LTJ R-165 to 3500. Then climbing left turn direct LTJ VORTAC. Continue climb in LTJ holding pattern (E, right turns, 260° inbound) to cross LTJ VORTAC at or above MCA or MEA for route of flight.

TILLAMOOK, OR

TILLAMOOK

TAKE-OFF MINIMUMS: **Rwys 1, 13, 19**, NA. **Rwy 31**, 2000-3 or std. with a min. climb of 350' per NM to 4500. DEPARTURE PROCEDURE: **Rwys 1, 13, 19**, NA. **Rwy 31**, use FETUJ RNAV DEPARTURE.

TORRINGTON, WY

TORRINGTON MUNI (TOR)

ORIG 10042 (FAA)

NOTE: **Rwy 2**, terrain 30' from DER, 277' left of centerline, 4197' MSL. **Rwy 10**, multiple trees and fence beginning 71' from DER, 143' right of centerline, up to 14' AGL/4214' MSL. Terrain 14' from DER, 502' left of centerline, 4199' MSL. **Rwy 28**, terrain 133' from DER, 386' right of centerline, 4213' MSL.

TWIN FALLS, ID

JOSLIN FIELD-MAGIC VALLEY RGNL

TAKE-OFF MINIMUMS: **Rwy 12**, NA.

DEPARTURE PROCEDURE: Aircraft departing on TWFR-240 CW R-080 climb on course. All others climb runway heading 6000 then climbing turn direct TWV VORTAC. Climb in holding pattern (NW, right turns, 113° inbound) to MCA or MEA as appropriate for direction of flight.

VANCOUVER, WA

PEARSON FIELD (VUO)

AMDT 2 07354 (FAA)

TAKE-OFF MINIMUMS: **Rwy 8**, std. w/ min. climb of 358' per NM to 600, or 500-3 w/ min. climb of 201' per NM to 600, or 900-2½ for climb in visual conditions.

Rwy 26, 600-3 or 900-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 8**, climb heading 079° to 500 then climbing left turn direct BTG VORTAC, thence... or for climb in visual conditions: cross Pearson Field at or above 800 MSL then proceed on BTG VORTAC R-179 to BTG VORTAC, thence... **Rwy 26**, climb heading 259° to 700 then climbing right turn direct BTG VORTAC, thence... or for climb in visual conditions: cross Pearson Field at or above 800 MSL then proceed on BTG VORTAC R-179 to BTG VORTAC, thence...

...continue climb in BTG VORTAC holding pattern (hold northwest, right turn, 149° inbound) to cross BTG VORTAC at or above MEA/MCA for route of flight.

NOTE: **Rwy 8**, tree 1.4 NM from departure end of runway, 1283' left of centerline, 100' AGL/395' MSL. Tree 1.7 NM from departure end of runway, 701' left of centerline, 100' AGL/401' MSL. Tree 2 NM from departure end of runway, 849' left of centerline, 100' AGL/406' MSL. Tree 2.4 NM from departure end of runway, 648' left of centerline, 100' AGL/399' MSL. **Rwy 26**, bridge 2704' from departure end of runway, 587' left of centerline, 243' AGL/245' MSL. Crane 1.5 NM from departure end of runway, 2563' right of centerline, 237' AGL/267' MSL. Transmission line tower 2.5 NM from departure end of runway, 2036' right of centerline, 516' AGL/534' MSL.

WALLA WALLA, WA

WALLA WALLA RGNL

DEPARTURE PROCEDURE: **Rwys 2, 7, 20, 25, 34**, turn left. **Rwy 16**, turn right. All aircraft climb to 2500 via ALW VOR/DME R-195, then climbing right turn direct ALW VOR/DME to cross ALW VOR/DME at or above MEA or MCA for route of flight.

NOTE: **Rwy 16**, antenna 365' from departure end of runway, 97' right of centerline, 1155' MSL. Terrain 1' from departure end of runway 140' left of centerline, 1145' MSL. **Rwy 20**, light 666' from departure end of runway, 640' left of centerline, 1170' MSL. **Rwy 34**, terrain 213' from departure end of runway, 230' right of centerline, 1130' MSL.

WEISER, ID

WEISER MUNI (S87)

ORIG 08269 (FAA)

TAKE-OFF MINIMUMS: **Rwy 12**, std. w/ min. climb of 310' per NM to 3900 or 2400-3 for climb in visual conditions. **Rwy 30**, std. w/ min. climb of 360' per NM to 4000 or 2400-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 12**, climb heading 121° to 3900 before proceeding on course. **Rwy 30**, climb heading 301° to 4000 before proceeding on course ... for climb in visual conditions: cross Weiser Muni airport at or above 4400 before proceeding on course.

NOTE: **Rwy 12**, tree 248' from departure end of runway, 443' right of centerline, 100' AGL/2184' MSL. **Rwy 30**, tree 1907' from departure end of runway, 769' right of centerline, 100' AGL/2174' MSL.

WENATCHEE, WA

PANGBORN MEMORIAL

TAKE-OFF MINIMUMS: **Rwy 7**, NA. **Rwy 12**, 1500-2 or std. with a min. climb of 510' per NM to 2900.

Rwys 25, 30, CAT A, B 1600-2 or std. with a min. climb of 360' per NM to 3100. CAT C, D 5500-3 or std. with a min. climb of 570' per NM to 7200.

DEPARTURE PROCEDURE: **Rwy 12**, climb runway heading. **Rwys 25, 30**, climbing left turn. All aircraft climb via EAT R-113 to 4000 then climbing left turn direct EAT VOR/DME. Aircraft departing EAT R-010 CW R-140 climb on course. All others continue climb in EAT VOR/DME holding pattern (E, right turns, 253° inbound) to cross EAT VOR/DME at or above: R-141 CW R-2007400; R-201 CW R-009, 8200.

WEST YELLOWSTONE, MT

YELLOWSTONE

TAKE-OFF MINIMUMS: **Rwy 19**, 2200-2 or std. with a min. climb of 245' per NM to 8900. FAR 135 AUTH:

Rwy 1, ½ mile.

DEPARTURE PROCEDURE: **Rwy 1**, turn right.

All aircraft climb direct TARGY LOM. Aircraft departing TARGY LOM on bearing 190° CW 220° climb on course. All others climb south on bearing 190° within 10 NM of TARGY LOM turn left and continue climbing direct TARGY LOM to cross TARGY LOM at or above: bearing 360° CW 190° 9300, bearing 220° CW 360° 10500

WHEATLAND, WY

PHIFER AIRFIELD

DEPARTURE PROCEDURE: **Rwy 8**, climbing left turn to 9000 via heading 030° to intercept IIP VOR/DME R-140° to JZZY Int, thence. . . **Rwy 26**, climbing right turn to 9000 via heading 360° and GYZ NDB course 051° to JZZY INT, thence. . .

. . . continue climb-in-hold (hold northwest, right turn, 140° inbound) to 9000 before proceeding on course.

NOTE: **Rwy 8**, multiple trees 512' from departure end of runway, 584' left of centerline, 100' AGL/4859' MSL.

Rwy 26, multiple trees, buildings, poles/lights, siren, roads w/ vehicles beginning 2' from departure end of runway, on centerline, to 488' left of centerline, 100' AGL/4899' MSL. Multiple trees, buildings, poles/lights, roads w/ vehicles beginning 2' from departure end of runway, on centerline to 499' right of centerline, 100' AGL/4859' MSL.

WHIDBEY ISLAND NAS (AULT FIELD) (NUW)

OAK HARBOR, WA. 07186

Diverse departures not authorized.

MILITARY DEPARTURE PROCEDURE: **Rwy 7**:

Minimum climb of 430'/NM until 600. Climbing left turn to 2000, intercept NUW R-067, expect radar vectors to join assigned route. **Rwy 14**: Climbing left turn to 2000, intercept NUW R-128, expect radar vectors to join assigned route. **Rwy 25**: Climb to 2000 via heading

249°, expect radar vectors to join assigned route. **Rwy 32**: Climb to 2000 via heading 317°, expect radar vectors to join assigned route. **ALL RWYS**: If vectors are not received by 10 DME of NUW TACAN, climb to

3000, intercept the NUW 11 DME ARC to join assigned route. CIVIL DEPARTURE PROCEDURE: **Rwy 7**: Minimum climb of 270'/NM until 700. Climbing left turn to 2000 via heading 067°, expect radar vectors to join assigned route. **Rwy 14**: Climbing left turn to

2000, via heading 128°, expect radar vectors to join assigned route. **Rwy 25**: Use published DP or climb to 2000 via heading 249°, expect radar vectors to join assigned route. **Rwy 32**: Climb to 2000 via heading

317°, expect radar vectors to join assigned route. **ALL RWYS**: If vectors are not received by 10 DME of NUW TACAN, climb to 3000, proceed direct CVV VOR/DME to join assigned route. TAKEOFF OBSTACLES: **Rwy**

7: Terrain, 7813' from DER, 2469' left of centerline, 276' MSL. Trees, 4274' from DER, 5472' left of centerline, 472' MSL. Trees, 5239' from DER, 6257' left of centerline, 495' MSL. Trees, 8561' from DER, 3685' left of centerline, 426' MSL. Trees, 12,561' from DER, 4814' right of centerline, 462' MSL. Terrain,

11,843' from DER, 7129' left of centerline, 502' MSL. Trees, 15,361' from DER, 4015' right of centerline, 521' MSL.

WORLAND, WY

WORLAND MUNI

TAKE-OFF MINIMUMS: **Rwys 4, 10, 22, 28**, NA.

Rwy 16, 300-2 or std. with a min. climb of 230' per NM to 4600.

DEPARTURE PROCEDURE: **All aircraft** climb to 5000, then direct RLY VOR/DME. Aircraft departing RLY R-061 CWR-349 climb on course. All others continue climb in RLY VOR/DME holding pattern (N, right turns, 159° inbound) to cross RLY VOR/DME at or above 7000.

YAKIMA, WA

YAKIMA AIR TERMINAL/MCALLISTER FIELD

TAKE-OFF MINIMUMS: **Rwy 4**, NA. **Rwy 9**, 800-4 or

std. with a min. climb of 300' per NM to 5000. **Rwys 22, 27**, 2500-3 or std. with a min. climb of 300' per NM to 5200.

DEPARTURE PROCEDURE: **Rwy 4**, NA. **Rwys 9, 22, 27**, Use ZILLA DEPARTURE PROCEDURE.

LOC I-AWO	APP CRS	Rwy Idg	5332
111.5	339°	TDZE	131
		Apt Elev	137

LOC RWY 34

ARLINGTON MUNI (AWO)

▼ Inoperative table does not apply to Cat C.
▲NA Use Arlington altimeter setting, if not received use Whidbey Island NAS altimeter setting and increase all MDAs 100 feet.

MAIS

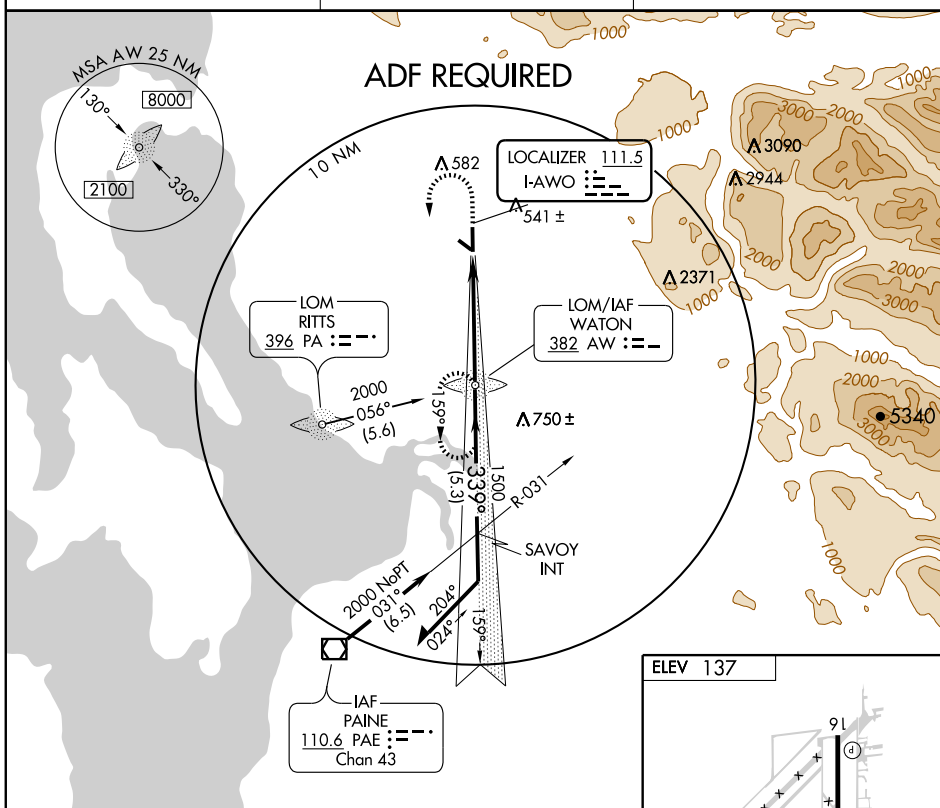


MISSED APPROACH: Climb to 1000 then climbing left turn to 2000 direct AW LOM and hold.

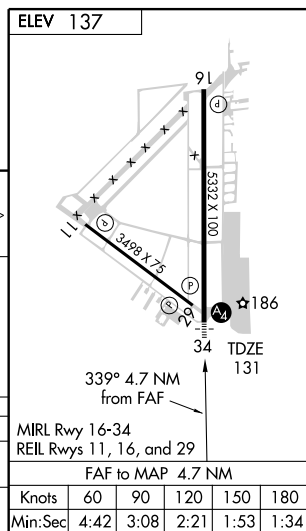
AWOS-3
135.625

SEATTLE CENTER
128.5 306.9

UNICOM
122.7 (CTAF) 0



Remain within 10 NM				
AW LOM				
2000				
1500				
4.7 NM				
CATEGORY	A	B	C	D
S-34	600-¾ 469 (500-¾)		600-1¼ 469 (500-1¼)	600-1½ 469 (500-1½)
CIRCLING	800-1 663 (700-1)	860-1 723 (800-1)	860-2 723 (800-2)	920-2½ 783 (800-2½)



NDB or GPS RWY 34

ARLINGTON MUNI (AWO)

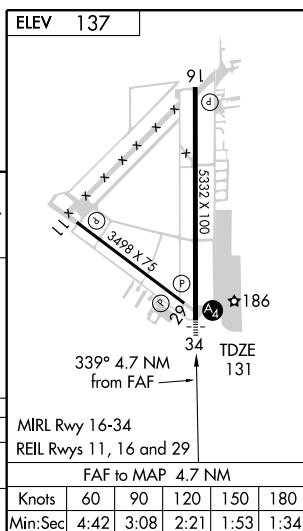
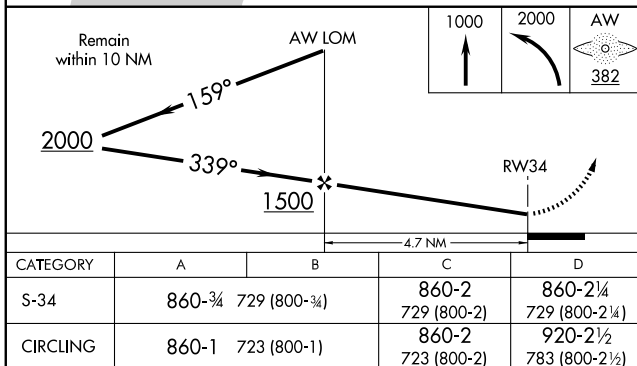
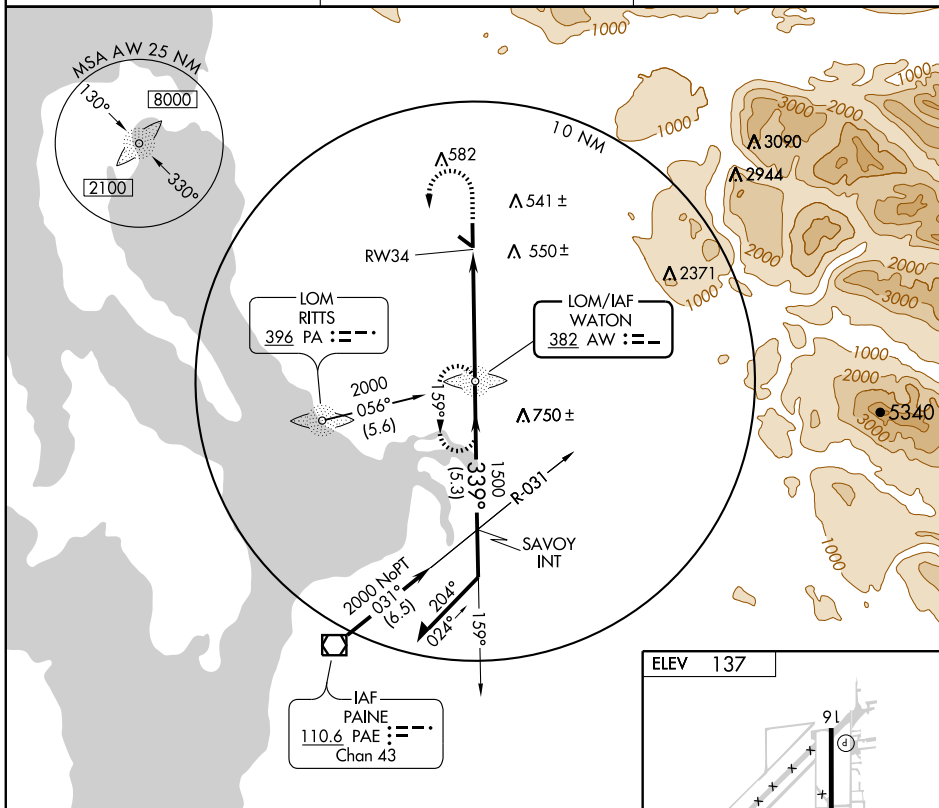
LOM AW	APP CRS	Rwy Idg	5332
382	339°	TDZE	131
		Apt Elev	137

T Inoperative table does not apply to Cat C.
A Use Arlington altimeter setting, if not received use Whidbey Island NAS altimeter setting and increase all MDAs 100 feet.

MALS


MISSED APPROACH: Climb to 1000 then climbing left turn to 2000 direct AW LOM and hold.

AWOS-3 135.625	SEATTLE CENTER 128.5 306.9	UNICOM 122.7 (CTAF) 0
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SEATTLE CLNC DEL
128.0
SEATTLE DEP CON
123.85

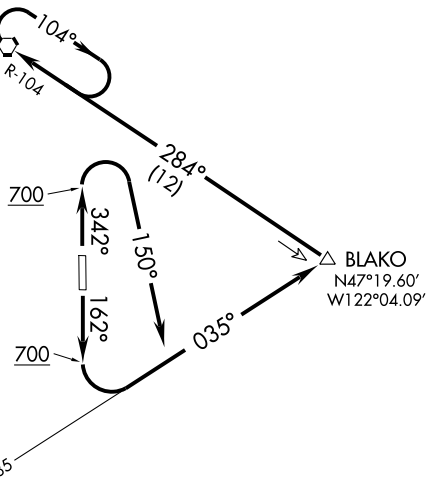
TAKE-OFF MINIMUMS

RWY 16: Standard with minimum climb of 266' per NM to 1200 or 1200-2½ for climb in visual conditions, do not exceed 180 KIAS until passing BLAKO.

RWY 34: Standard with minimum climb of 300' per NM to 900 or 1200-2½ for climb in visual conditions, do not exceed 180 KIAS until passing BLAKO.

SEATTLE
116.8 SEA
Chan 115
N47°26.12' W122°18.58'
L-1, H-1

McCHORD
109.6 TCM
Chan 33

TAKE-OFF OBSTACLE NOTES:

RWY 16: AAO 3.2 NM from DER, 3643' left of centerline 200' AGL/724' MSL.

RWY 34: AAO 3.2 NM from DER, 5520' right of centerline 200' AGL/639' MSL. Powerline 1804' from DER, on centerline, 80' AGL/122' MSL.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 16: Climb heading 162° to 700, then climbing left turn to 3000 via the TCM R-035 to BLAKO INT then left turn via the SEA R-104 to SEA VORTAC; or climb in visual conditions east of RWY 16/34 to cross Auburn Muni southbound at or above 1200', then climb to 3000 via heading 150° and TCM R-035 to BLAKO INT then left turn via the SEA R-104 to SEA VORTAC. Do not exceed 180 KIAS until passing BLAKO. Thence....

TAKE-OFF RUNWAY 34: Climb heading 342° to 700, then climbing right turn to 3000 via heading 150° to TCM R-035 to BLAKO INT then left turn via the SEA R-104 to SEA VORTAC; or climb in visual conditions east of RWY 16/34 to cross Auburn Muni southbound at or above 1200', then climb to 3000 via heading 150° and TCM R-035 to BLAKO INT then left turn via the SEA R-104 to SEA VORTAC. Do not exceed 180 KIAS until passing BLAKO. Thence....

....hold E SEA VORTAC, RT, 284° inbound; when authorized by ATC, climb-in-hold to 5000, or as assigned before proceeding on course.

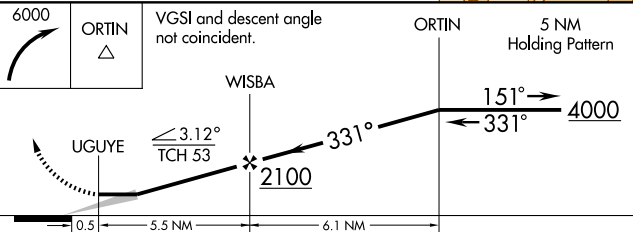
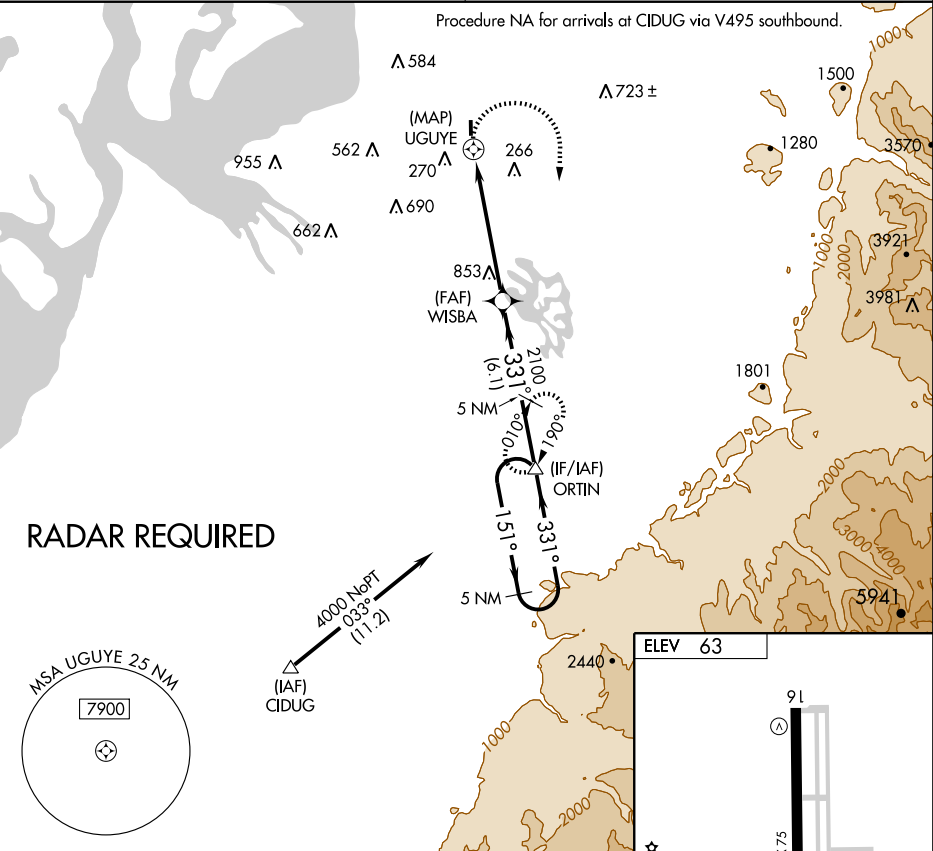
APP CRS	Rwy Idg	N/A
331°	TDZE	N/A
	Apt Elev	63

NA
Circling NA west of Rwy 16-34.
Procedure NA at night.
DME/DME RNP- 0.3 NA.
Use Seattle-Tacoma Int'l altimeter setting.

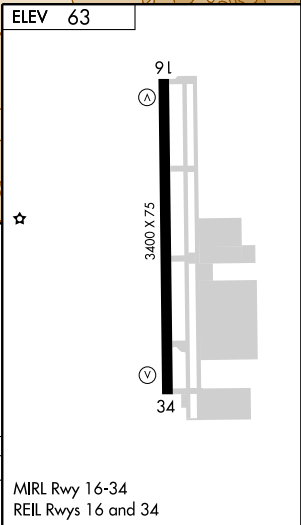
MISSED APPROACH: Climbing right turn to 6000 direct
ORTIN and hold, continue climb-in-hold to 6000.

SEATTLE APP CON
123.85

UNICOM
122.8 (CTAF)

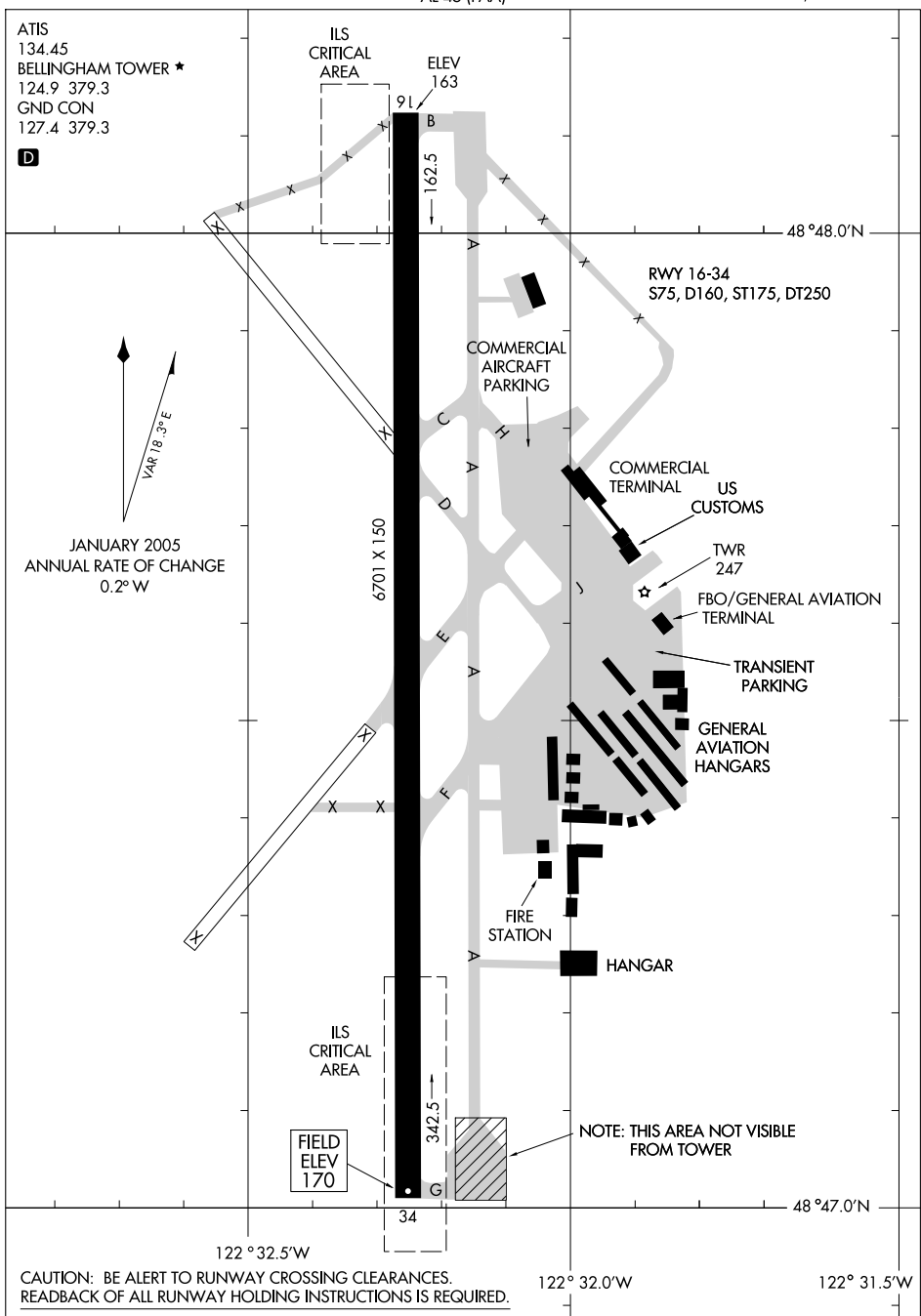


CATEGORY	A	B	C	D
CIRCLING	1320-1¼ 1257 (1300-1¼)	1320-1½ 1257 (1300-1½)	NA	



AIRPORT DIAGRAM

AL-45 (FAA)

 BELLINGHAM INTL (BLI)
 BELLINGHAM, WASHINGTON


LOC/DME I-BLI

108.5

Chan 22

APP CRS

160°

Rwy Idg

6701

TDZE

163

Apt Elev

170

For inoperative MALS, increase S-LOC 16 Cat D visibility to RVR 5000.

If local altimeter not received, use Friday Harbor altimeter setting and increase DA to 430 and increase all MDAs 80 feet.

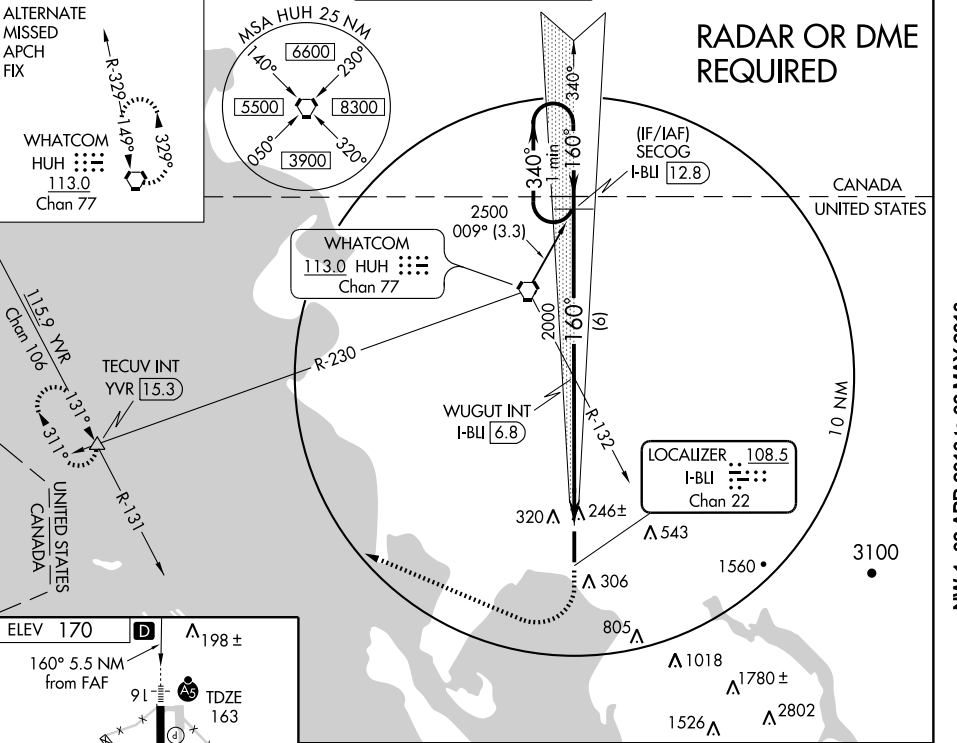
VDP NA when using Friday Harbor altimeter setting.

* RVR 1800 authorized with the use of FD or AP or HUD to DA.

MALS

MISSED APPROACH: Climb to 700 then climbing right turn to 2000 via heading 271° and YVR VORTAC R-131 to TECUV INT/ YVR 15.3 DME and hold.

ATIS 134.45	VICTORIA TERMINAL APP CON 132.7 290.8	BELLINGHAM TOWER★ 124.9 (CTAF) 0 379.3	GND CON 127.4 379.3	UNICOM 122.95
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ELEV 170

160° 5.5 NM from FAF

91

TDZE 163

TWR 247

REIL Rwy 34

HIRL Rwy 16-34

FAF to MAP 5.5 NM

One Minute Holding Pattern

SECOG I-BLI 12.8

WUGUT INT I-BLI 6.8

700

2000

YVR R-131 115.9

TECUV

GS 3.00° TCH 50

2000

340° 160°

2000

I-BLI 2.1

I-BLI 1.2

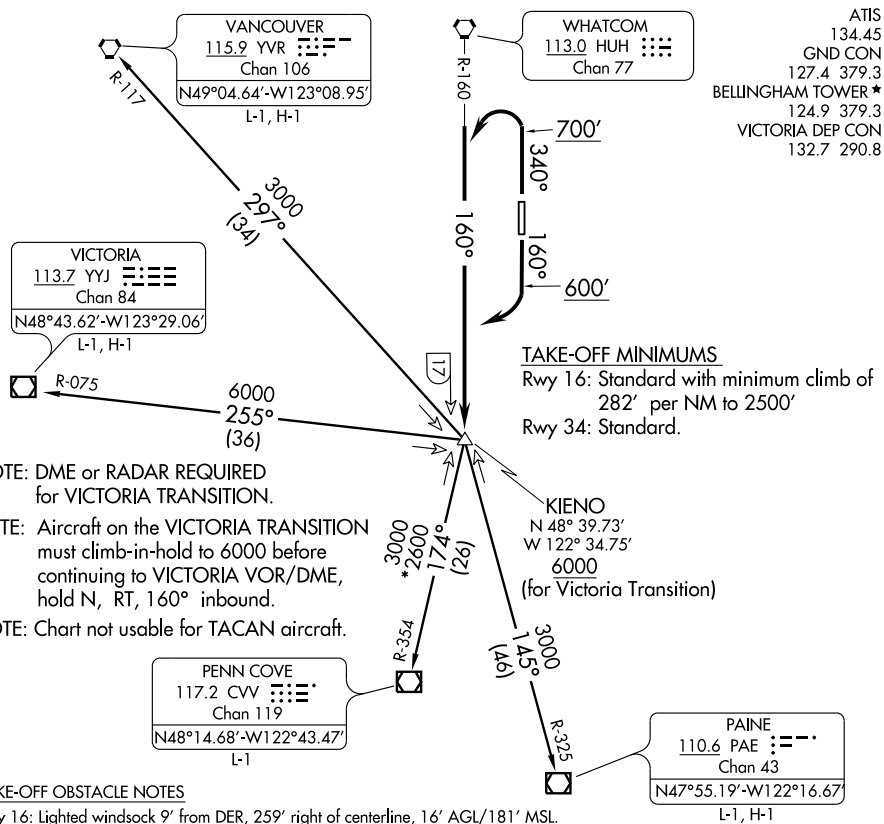
6 NM

4.6 NM

0.9

CATEGORY	A	B	C	D
S-ILS 16	* 363/24 200 (200-½)			
S-LOC 16	500/24 337 (400-½)			500/40 337 (400-¾)
CIRCLING	620-1 450 (500-1)		620-1½ 450 (500-1½)	720-2 550 (600-2)

NW-1, 08 APR 2010 to 06 MAY 2010



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 16: Climb heading 160° to 600', then climbing right turn to intercept HUH R-160 to KIENO INT, Thence....

TAKE-OFF RUNWAY 34: Climb heading 340° to 700', then climbing left turn to intercept HUH R-160 to KIENO INT. Thence....

....Maintain assigned transition altitude, expect requested altitude within 10 minutes.

PAINE TRANSITION (KIENO3.PAE): From over KIENO INT via PAE R-325 to PAE VOR/DME.

PENN COVE TRANSITION (KIENO3.CVV): From over KIENO INT via CVV R-354 to CVV VOR/DME.

VANCOUVER TRANSITION (KIENO3.YVR): From over KIENO INT via YVR R-117 to YVR VORTAC.

VICTORIA TRANSITION (KIENO3.YYJ): From over KIENO INT via YYJ R-075 to YYJ VOR/DME.

WAAS CH 45999 W16A	APP CRS 160°	Rwy Idg TDZE 163 Apt Elev 170	6701 163 170
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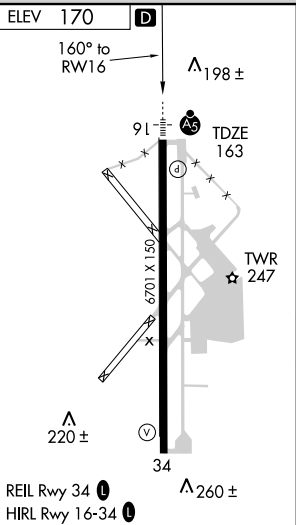
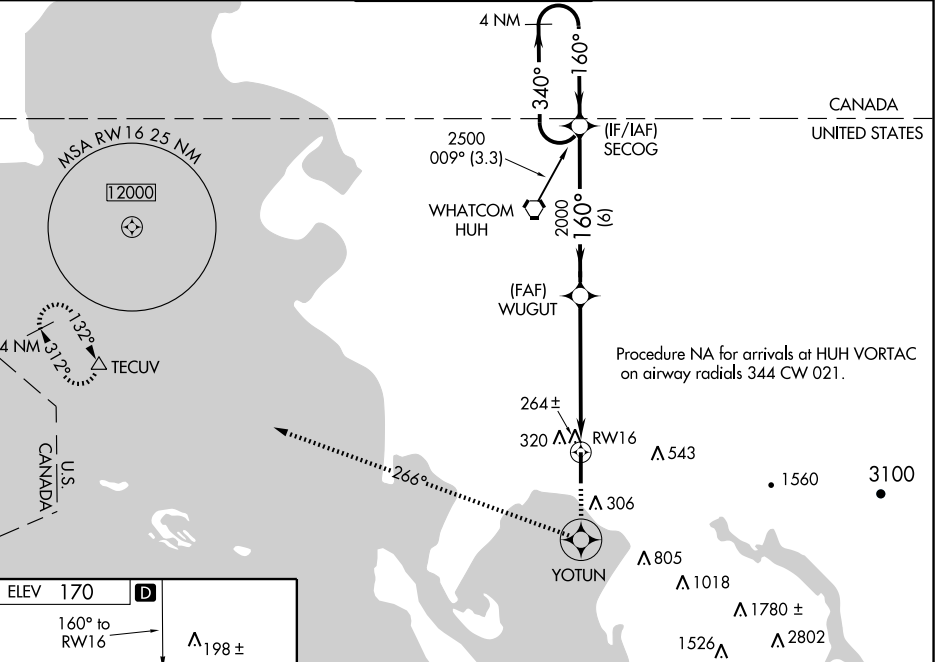
RNAV (GPS) RWY 16
BELLINGHAM INTL (BLI)

For inoperative MALS, increase LPV all Cats visibility to RVR 5000. Increase LNAV Cat D visibility to RVR 6000. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 48°C (118°F). DME/DME RNP -0.3 NA. Baro-VNAV and VDP NA when using Friday Harbor altimeter setting. If local altimeter setting not received, use Friday Harbor altimeter setting and increase all DA/MDAs 80 feet.



MISSED APPROACH: Climb to 2000 direct YOTUN and right turn via 266° track to TECUV and hold.

ATIS 134.45	VICTORIA TERMINAL APP CON 132.7 290.8	BELLINGHAM TOWER ★ 124.9 (CTAF) 0 379.3	GND CON 127.4 379.3	UNICOM 122.95
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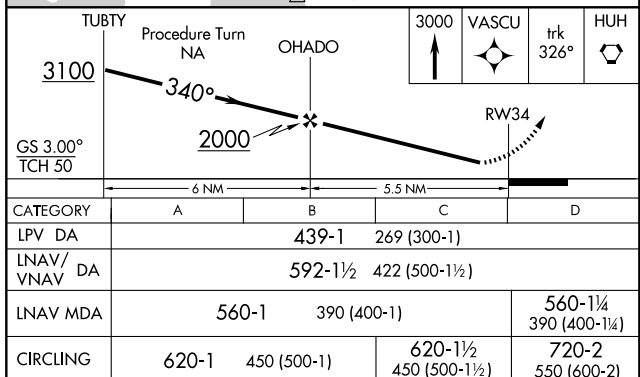
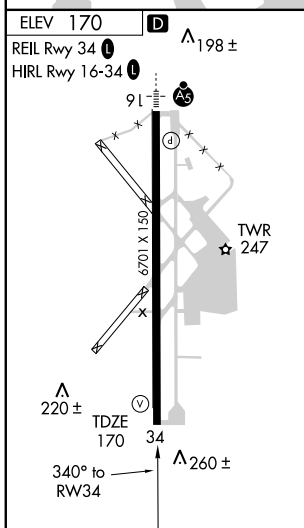
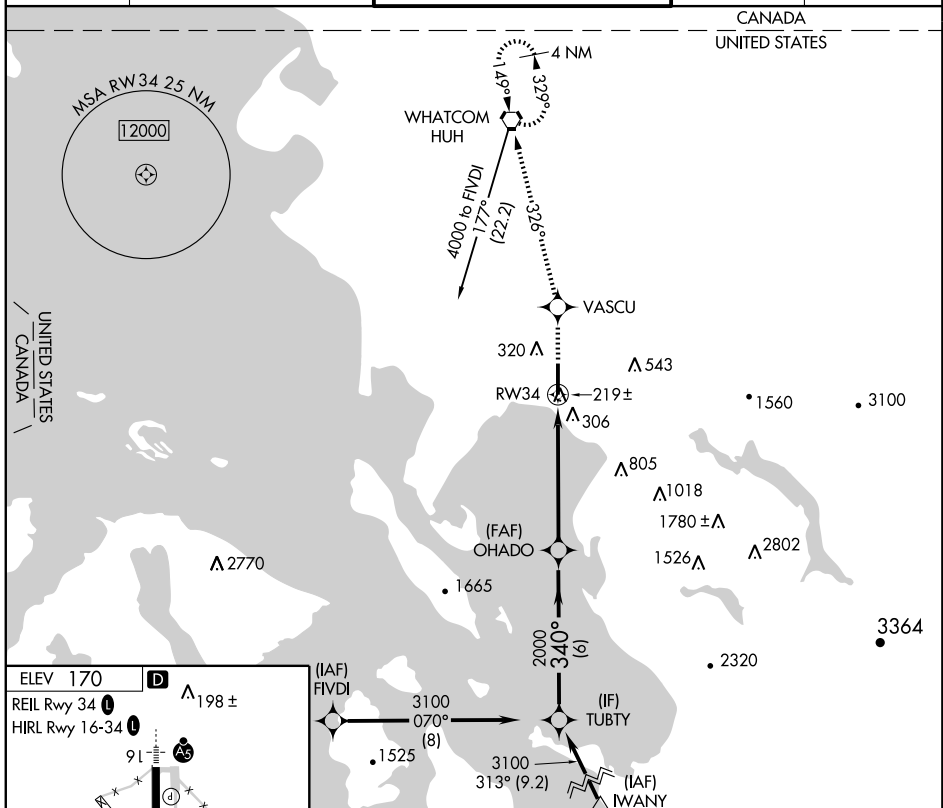
4 NM Holding Pattern				2000 ↑		YOTUN 		TECUV △	
SECOG				WUGUT		266° track 			
						*LNAV only			
GS 3.00° TCH 50									
				6 NM		4.5 NM		1 NM	
CATEGORY		A		B		C		D	
LPV DA		442/24 279 (300-½)							
LNAV/ VNAV DA		554/40 391 (400-¾)							
LNAV MDA		520/24 357 (400-½)						520/50 357 (400-1)	
CIRCLING		620-1 450 (500-1)				620-1½ 450 (500-1½)		720-2 550 (600-2)	

RNAV (GPS) RWY 34
BELLINGHAM INTL (BLI)

MISSED APPROACH: Climb to 3000 direct VASCU and via 326° track to HUH VORTAC and hold, continue climb-in-hold to 3000.

BELLINGHAM TOWER ★
124.9 (CTAF) L 379.3

GND CON
127.4 379.3

UNICOM
122.95

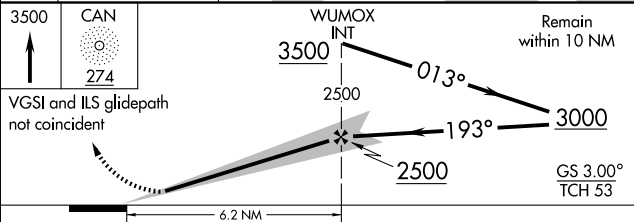
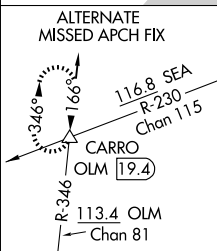
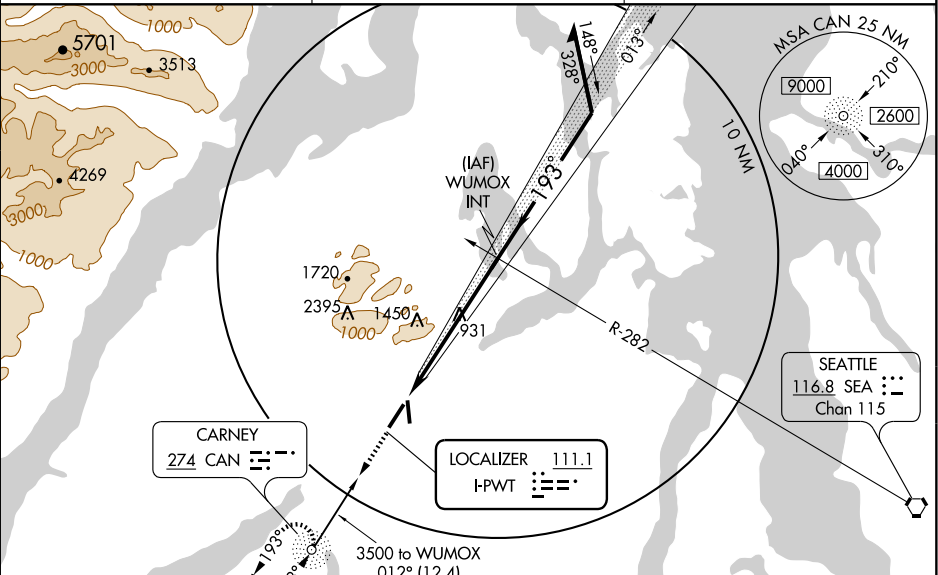
LOC I-PWTT	APP CRS	Rwy Idg	6000
111.1	193°	TDZE	441
		Apt Elev	444

ILS or LOC RWY 19
BREMERTON NATIONAL (PWT)

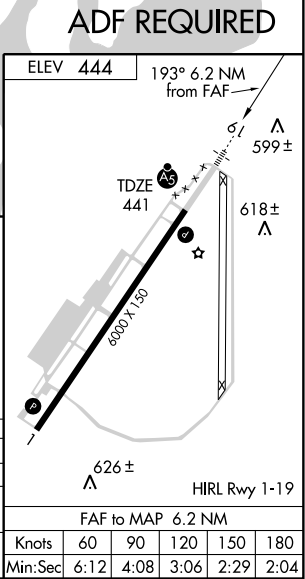
⚠ Circling NA for Cat. D west of Rwy 1-19. When local altimeter setting not received, use Seattle-Tacoma Intl altimeter setting and increase all DA/MDAs 60 feet and all visibilities 3/4 mile, inoperative table does not apply.

MALSR
A5 MISSED APPROACH: Climb to 3500 direct CAN NDB and hold, continue climb-in-hold to 3500.

AWOS-3	SEATTLE APP CON	UNICOM
121.2	127.1 254.4	123.05 (CTAF) 0



CATEGORY	A	B	C	D
S-ILS 19	645-1/2	204 (300-1/2)		
S-LOC 19	1200-1/2 759 (800-1/2)	1200-3/4 759 (800-3/4)	1200-1 1/4 759 (800-1 1/4)	1200-2 759 (800-2)
CIRCLING	1200-1 756 (800-1)	1200-1 1/4 756 (800-1 1/4)	1200-2 1/4 756 (800-2 1/4)	1200-2 1/2 756 (800-2 1/2)



NDB PWT	APP CRS	Rwy Idg	6000
<u>206</u>	020°	TDZE	439
		Apt Elev	439

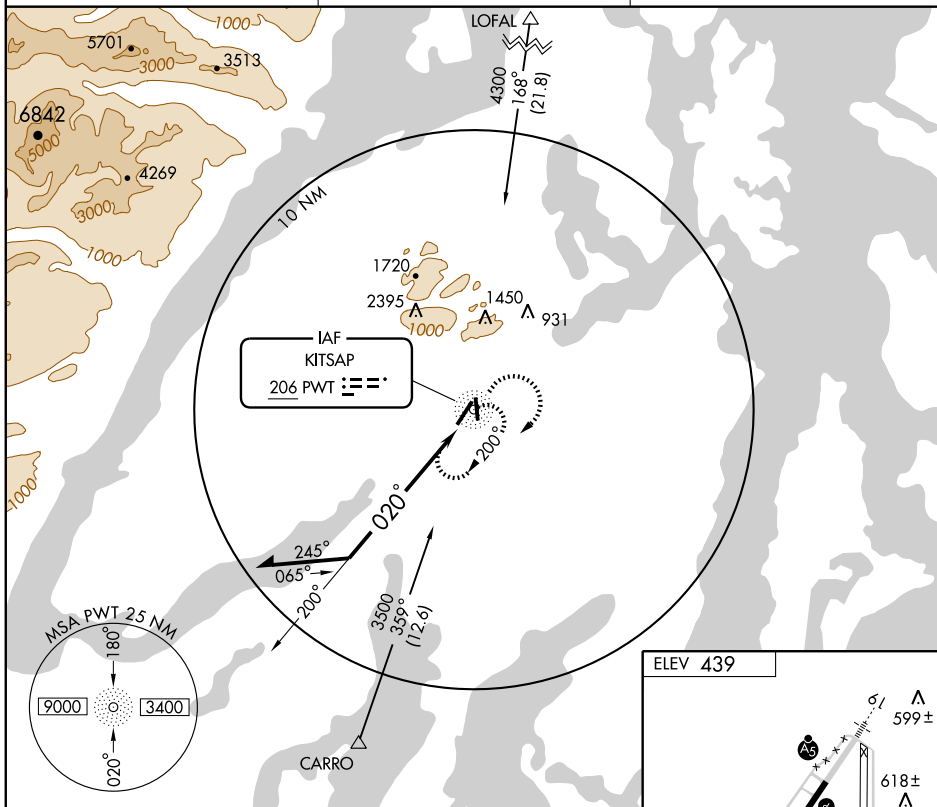
NDB RWY 1
BREMERTON NATIONAL (PWT)

T
A NA Circling NA west of Rwy 1-19 for Cat.D.

MISSED APPROACH: Climbing right turn to 3500 via 200° bearing from PWT NDB, then direct PWT NDB and hold.

AWOS-3
121.2

SEATTLE APP CON
127.1 254.4

UNICOM
123.05 (CTAF) **L**

Remain
within 10 NM

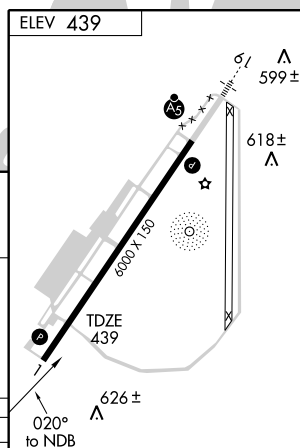
2000

NDB
3500*

* Maintain 3500 or above until established outbound for Procedure Turn.

3500
PWT
200°

PWT
206



HIRL Rwy 1-19

CATEGORY	A	B	C	D
S-1	980-1	541 (600-1)	980-1½ 541 (600-1½)	980-1¾ 541 (600-1¾)
CIRCLING	980-1	541 (600-1)	980-1½ 541 (600-1½)	1000-2 561 (600-2)

APP CRS	Rwy Idg	6000
013°	TDZE	444
	Apt Elev	444

RNAV (GPS) RWY 1

BREMERTON NATIONAL (PWT)

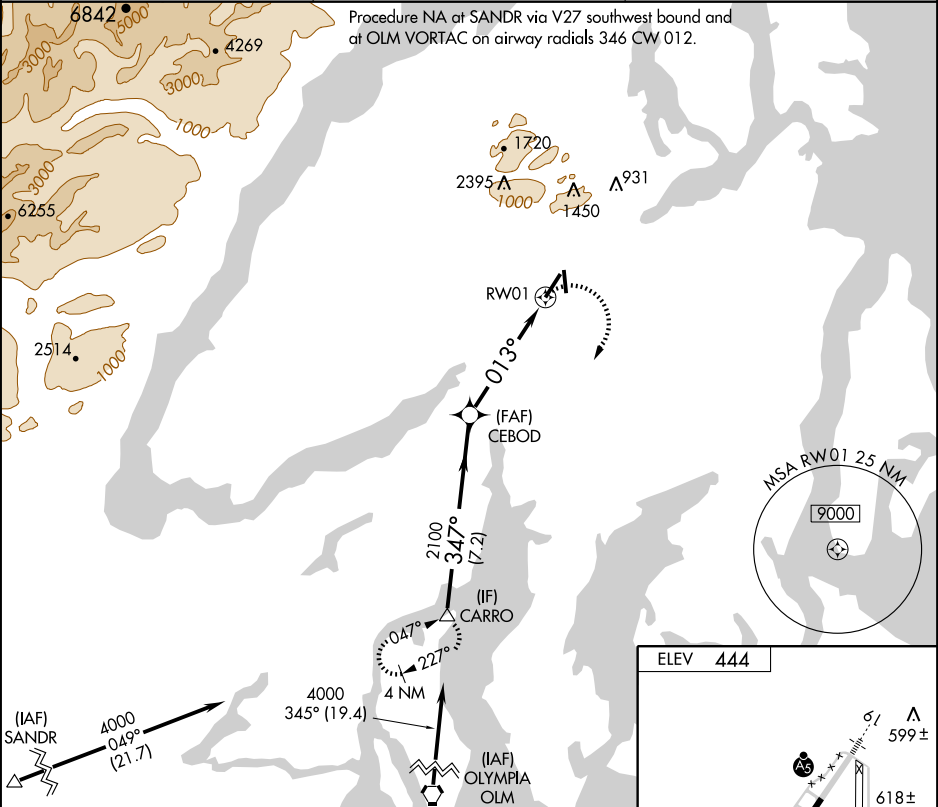
⚠ Circling NA for Cat. D west of Rwy 1-19.

⚠ DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA.

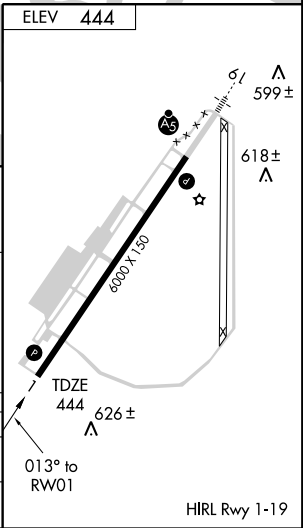
When local altimeter setting not received, use Seattle-Tacoma Intl altimeter setting and increase all MDAs 60 feet.

MISSED APPROACH: Climbing right turn to 4000 direct CARRO and hold, continue climb-in-hold to 4000.

AWOS-3 121.2	SEATTLE APP CON 127.1 254.4	UNICOM 123.05 (CTAF) 📻
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	CARRO		CEBOD		RWY01	
	4000		2100		2100	
	347°		013°		013°	
	7.2 NM		5 NM		5 NM	
CATEGORY	A		B		C	
LNAV MDA	880-1		436 (500-1)		880-1½ 436 (500-1½)	
CIRCLING	940-1		496 (500-1)		1000-2 556 (600-2)	



WAAS CH 61106 W19A	APP CRS 193°	Rwy Idg TDZE Apt Elev	6000 441 444
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RNAV (GPS) RWY 19

BREMERTON NATIONAL (PWT)

⚠ Circling NA for Cat. D west of Rwy 1-19. DME/DME RNP-0.3 NA.
⚠ When local altimeter setting not received, use Seattle-Tacoma Intl altimeter setting and increase DA to 808 feet and all MDAs 60 feet, increase LPV visibility all Cats. 1/2 mile. Inoperative table does not apply to LNAV Cat. A and B. VDP NA when using Seattle-Tacoma Intl altimeter setting. For inoperative MALSR increase LPV visibility all Cats. 1/2 mile. Inoperative table does not apply to LNAV Cat. A and B.

MALSR

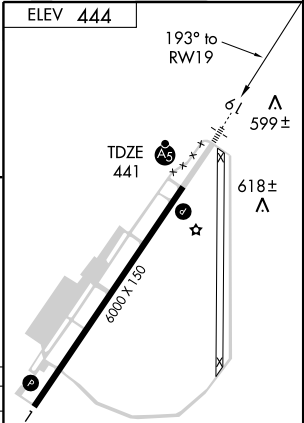
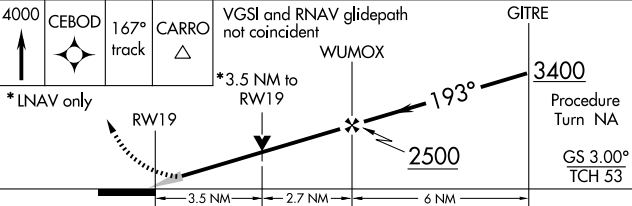
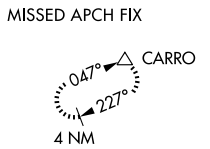


MISSED APPROACH: Climb to 4000 direct CEBOD and via 167° track to CARRO and hold, continue climb-in-hold to 4000.

AWOS-3
121.2

SEATTLE APP CON
127.1 254.4

UNICOM
123.05 (CTAF) 0



CATEGORY	A	B	C	D
LPV DA	763-1/2 322 (400-1/2)			
LNAV MDA	1600-1/4 1159 (1200-1/4)	1600-1/2 1159 (1200-1/2)	1600-2/2 1159 (1200-2/2)	
CIRCLING	1600-1/4 1156 (1200-1/4)	1600-1/2 1156 (1200-1/2)	1600-3 1156 (1200-3)	

HIRL Rwy 1-19

NDB BVS	APP CRS	Rwy Idg	5477
<u>240</u>	112°	TDZE	144
		Apt Elev	144

NDB RWY 10
BURLINGTON/MOUNT VERNON/ SKAGIT RGNL (BVS)

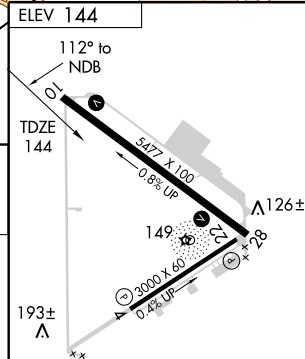
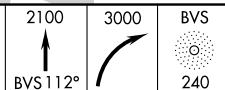
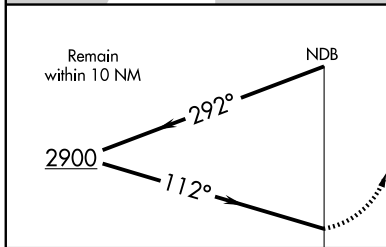
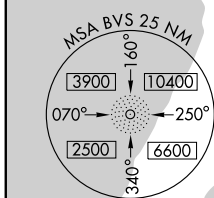
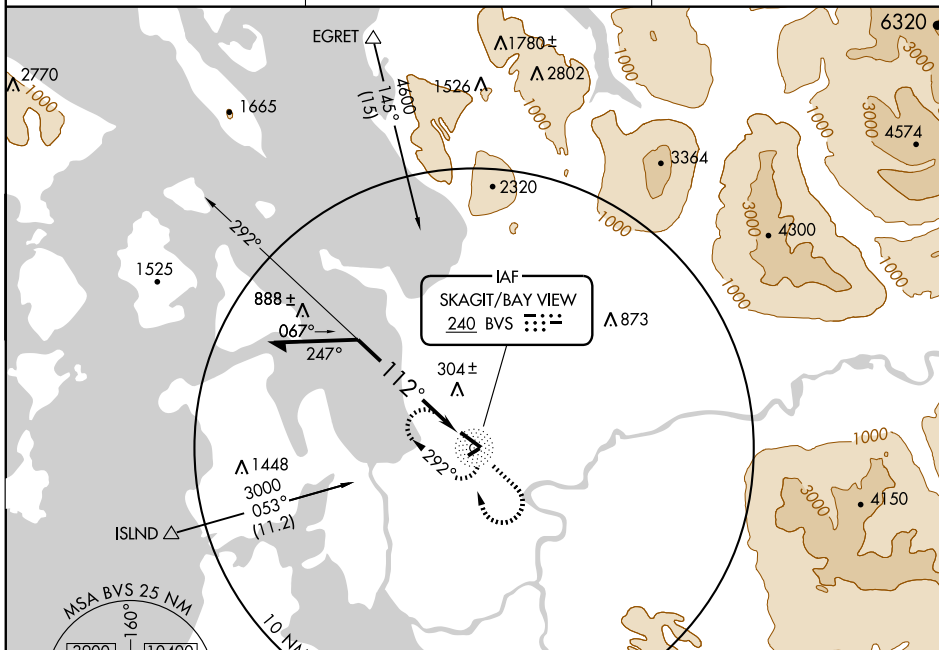
T	Visibility reduction by helicopters NA.
A	When local altimeter setting not received, use Friday Harbor altimeter setting and increase all MDA 80 feet.

MISSED APPROACH: Climb to 2100 via 112° bearing from BVS NDB then climbing right turn to 3000 direct BVS NDB and hold.

AWOS-3
121.125

WHIDBEY APP CON
120.7 270.8

UNICOM
123.075 (CTAF) **L**



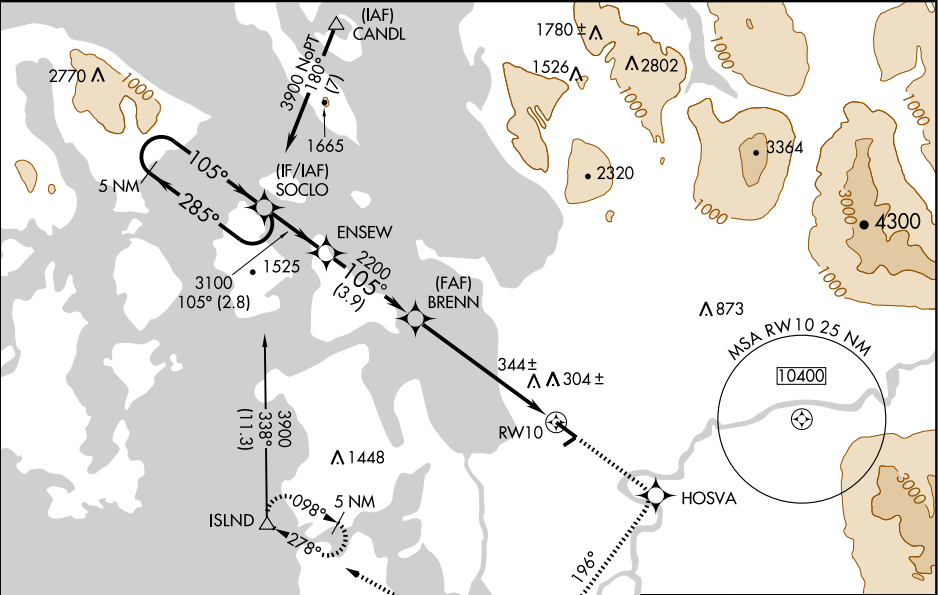
CATEGORY	A	B	C	D
S-10	1400-1¼ 1256 (1300-1¼)	1400-1½ 1256 (1300-1½)	1400-3	1256 (1300-3)
CIRCLING	1400-1¼ 1256 (1300-1¼)	1400-1½ 1256 (1300-1½)	1400-3	1256 (1300-3)

LIRL Rwy 4-22 **L**
REIL Rwys 10 and 28 **L**
MIRL Rwy 10-28 **L**

⚠ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 49°C (120°F). DME/DME RNP -0.3 NA. Visibility reduction by helicopters NA. Baro-VNAV NA when using Friday Harbor altimeter setting. When local altimeter setting not received, use Friday Harbor altimeter setting and increase all DA/MDA 80 feet, increase LPV and LNAV/VNAV all Cats, LNAV Cats C and D visibilities ¼ mile.

MISSED APPROACH: Climb to 5000 direct HOSVA and via 196° track to KIKYE and via 278° track to ISLND and hold, continue climb-in-hold to 5000.

AWOS-3 121.125	WHIDBEY APP CON 120.7 270.8	UNICOM 123.075 (CTAF) 1
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5 NM Holding Pattern

SOCLO

5000

HOSVA

196° track

KIKYE

278° track

ISLND

3900

285°

105°

3100

2200

105°

RW10

GS 3.00°

TCH 40

2.8 NM

3.9 NM

6.2 NM

CATEGORY	A	B	C	D
LPV DA		497-1¼	353 (400-1¼)	
LNAV/VNAV DA		640-1¾	496 (500-1¾)	
LNAV MDA	620-1	476 (500-1)	620-1¼ 476 (500-1¼)	620-1½ 476 (500-1½)
CIRCLING	660-1	516 (600-1)	660-1½ 516 (600-1½)	700-2 556 (600-2)

ELEV 144

105° to RW10

TDZE 144

5477 X 100

0.8% Up

126±

149

22

28

3000 X 60

0.4% Up

193±

LIRL Rwy 4-22 **1**

REIL Rws 10 and 28 **1**

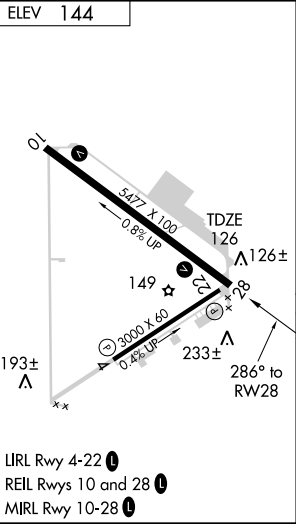
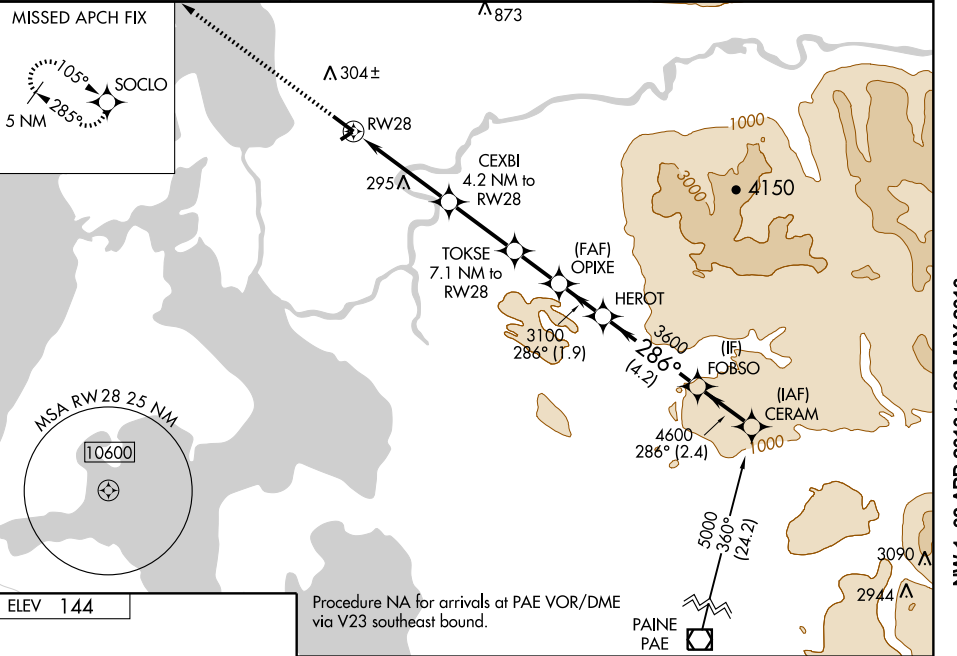
MIRL Rwy 10-28 **1**

WAAS	APP CRS	Rwy Idg	5477
CH 70407	286°	TDZE	126
W28A		Apt Elev	144

⚠ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 49°C (120°F). DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. VDP and Baro-VNAV NA when using Friday Harbor altimeter setting. When local altimeter setting not received, use Friday Harbor altimeter setting and increase all DA/MDA 80 feet, increase LPV and LNAV/VNAV all Cnts, LNAV Cnts C and D visibilities ¼ mile.

MISSED APPROACH: Climb to 4000 direct SOCLO and hold, continue climb-in-hold to 4000.

AWOS-3 121.125	WHIDBEY APP CON 120.7 270.8	UNICOM 123.075 (CTAF) 0
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4000	SOCLO	VGSI and RNAV glidepath not coincident				FOBSO
*LNAV only		TOKSE 7.1 NM to RW28	OPIXE	HEROT	FOBSO	Procedure Turn NA
1.2 NM to RW28		CEXBI 4.2 NM to RW28	2440	3100	4600	GS 3.00°
RW28		1480*	286°	3600	4600	TCH 46
1.2		3 NM	2.9 NM	2 NM	1.9 NM	4.2 NM
CATEGORY	A	B	C	D		
LPV DA	421-1¼		295 (300-1¼)			
LNAV/VNAV DA	503-1½		377 (400-1½)			
LNAV MDA	600-1	474 (500-1)	600-1¼	474 (500-1¼)	600-1½	474 (500-1½)
CIRCLING	660-1	516 (600-1)	660-1½	516 (600-1½)	700-2	556 (600-2)

LIRL Rwy 4-22 **0**
REIL Rwy 10 and 28 **0**
MIRL Rwy 10-28 **0**

APP CRS	Rwy Idg	5000
160°	TDZE	173
	Apt Elev	174

RNAV (GPS) RWY 16

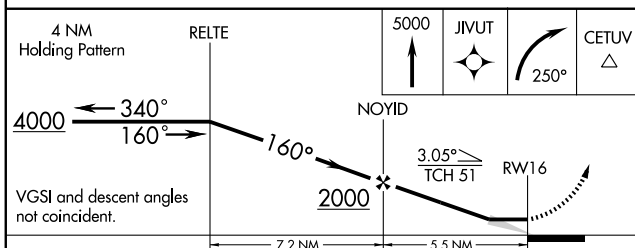
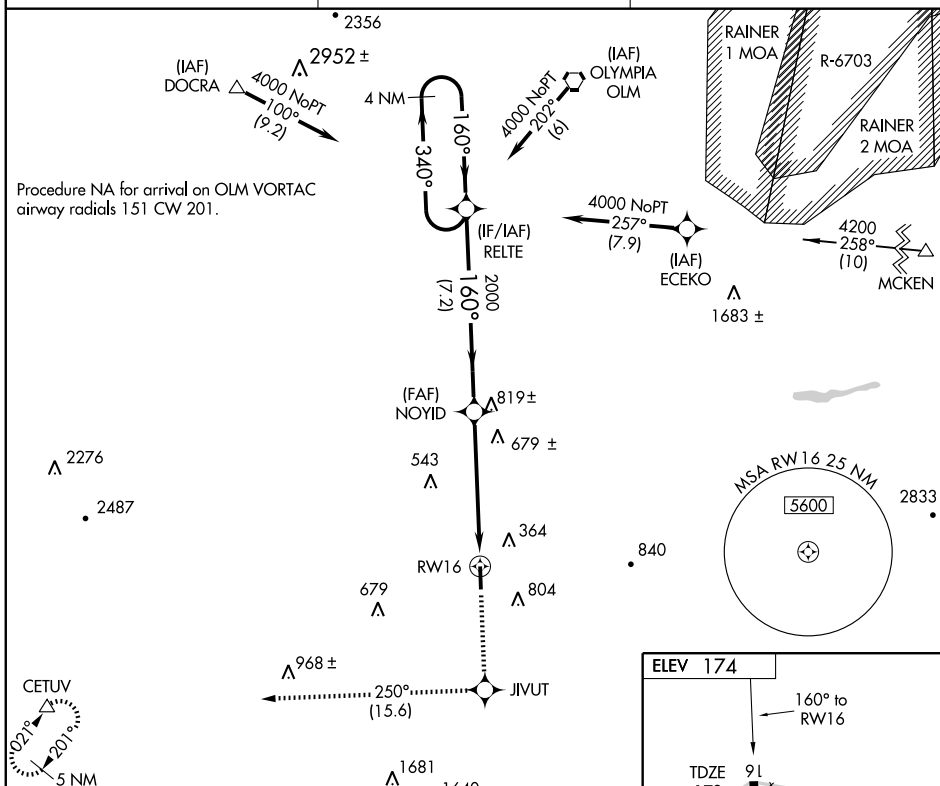
CHEHALIS-CENTRALIA (CLS)

T	DME/DME RNP- 0.3 NA.
A NA	Circling NA northeast of Rwy 16-34. Circling NA at night.

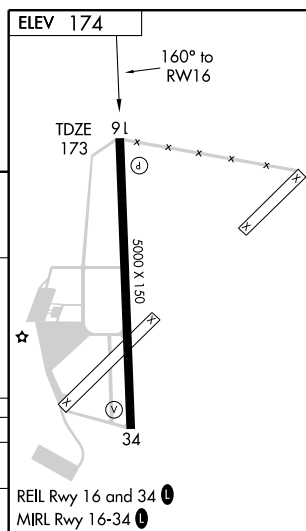
MISSED APPROACH: Climb to 5000 direct JIVUT and right turn via 250° track to CETUV and hold, continue climb-in-hold to 5000.

AWOS-3
118.025

SEATTLE APP CON
121.1 377.15

UNICOM
122.8 (CTAF) **L**

CATEGORY	A	B	C	D
LNAV MDA	980-1 807 (900-1)	980-1¼ 807 (900-1¼)	980-2¼ 807 (900-2¼)	980-2½ 807 (900-2½)
CIRCLING	980-1 806 (900-1)	980-1¼ 806 (900-1¼)	1080-2¾ 906 (1000-2¾)	1140-3 966 (1000-3)



NDB DPY
216

APP CRS
323°

Rwy Idg	TDZE	Apt Elev
1	100	100
2	100	100
3	100	100
4	100	100
5	100	100
6	100	100
7	100	100
8	100	100
9	100	100
10	100	100
11	100	100
12	100	100
13	100	100
14	100	100
15	100	100
16	100	100
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95	100	100
96	100	100
97	100	100
98	100	100
99	100	100
100	100	100

N/A
N/A
2211

NDB-A
DEER PARK (DEW)

T Circling NA west of Rwy 16-34.

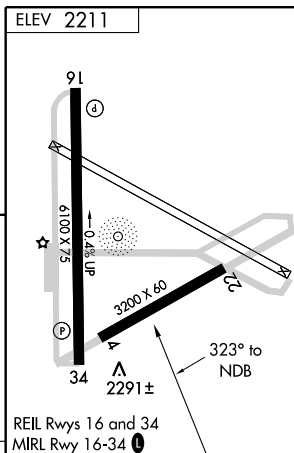
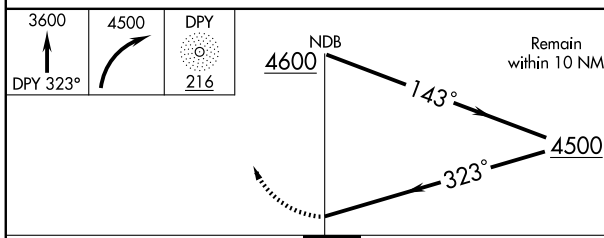
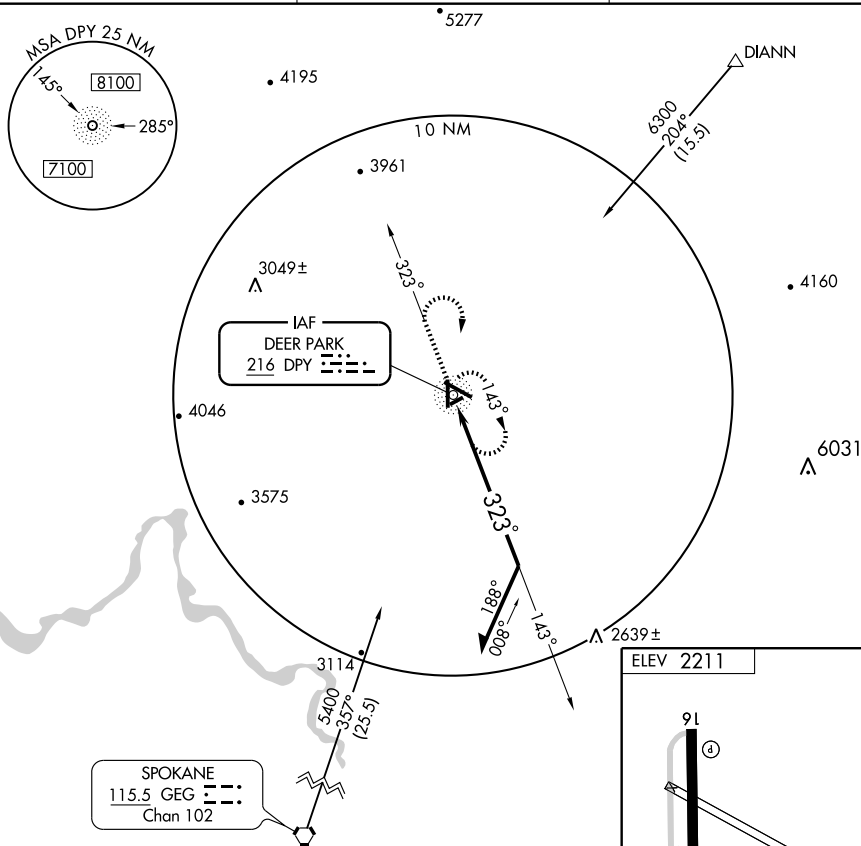
NA When local altimeter setting not received, use Spokane Intl altimeter setting and increase all MDAs 80 feet and all visibilities ¼ mile.

MISSED APPROACH: Climb to 3600 via 323° bearing from DPY NDB then climbing right turn to 4500 direct DPY NDB and hold.

ASOS
135.175

SPOKANE APP CON
123.75 282.25

UNICOM
123.0 (CTAF) **L**



CATEGORY	A	B	C	D						
CIRCLING	3000-1 789 (800-1)	3000-1¼ 789 (800-1¼)	3000-2¼ 789 (800-2¼)	3000-2½ 789 (800-2½)	Knots	60	90	120	150	180
					Min:Sec					

AL-9102 (FAA)

WAAS CH 61306 W34A	APP CRS 344°	Rwy Idg 6100 TDZE 2201 Apt Elev 2211
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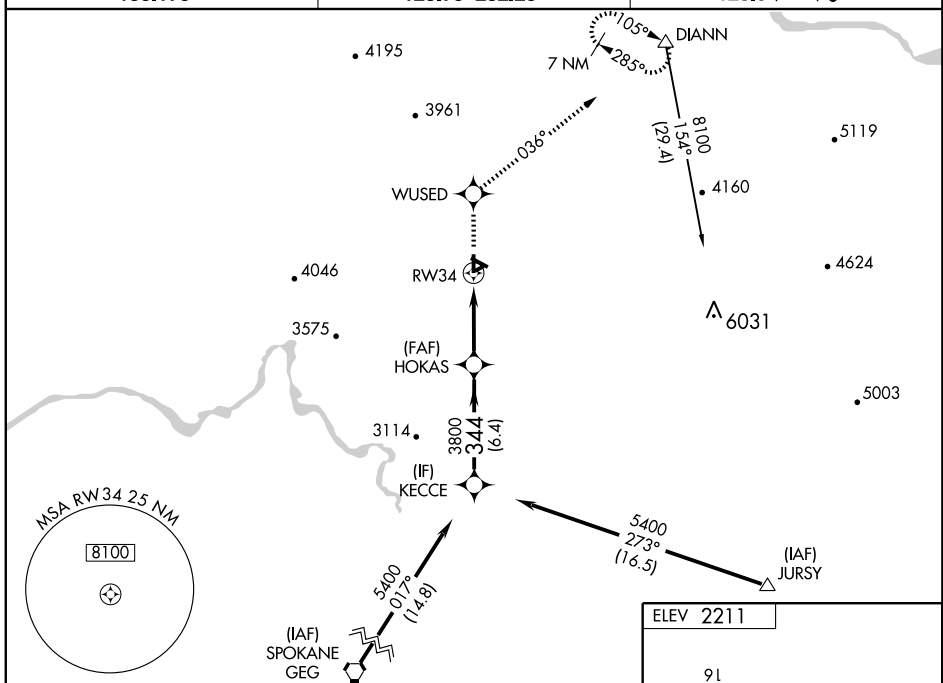
RNAV (GPS) RWY 34
DEER PARK (DEW)

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -19°C (-2°F) or above 44°C (111°F).
When local altimeter setting not received, use Spokane Intl altimeter setting and increase all DA/MDAs 80 feet and all visibilities 1/4 mile. Circling not authorized west of Rwy 16-34. DME/DME RNP 0.3 NA. VDP and Baro-VNAV NA when using Spokane Intl altimeter setting. Visibility reduction by helicopters NA.

MISSED APPROACH: Climb to 8100 direct WUSED and via 036° track to DIANN and hold, continue climb-in- hold to 8100.

ASOS
135.175

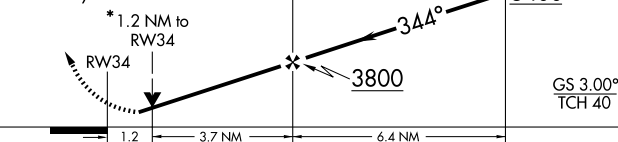
SPOKANE APP CON
123.75 282.25

UNICOM
123.0 (CTAF) **L**

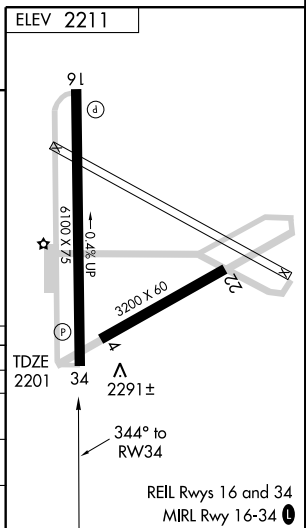
NW-1. 08 APR 2010 to 06 MAY 2010

8100	WUSED 	036° track	DIANN 	HOKAS	KECCE	Procedure Turn NA
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* LNAV only



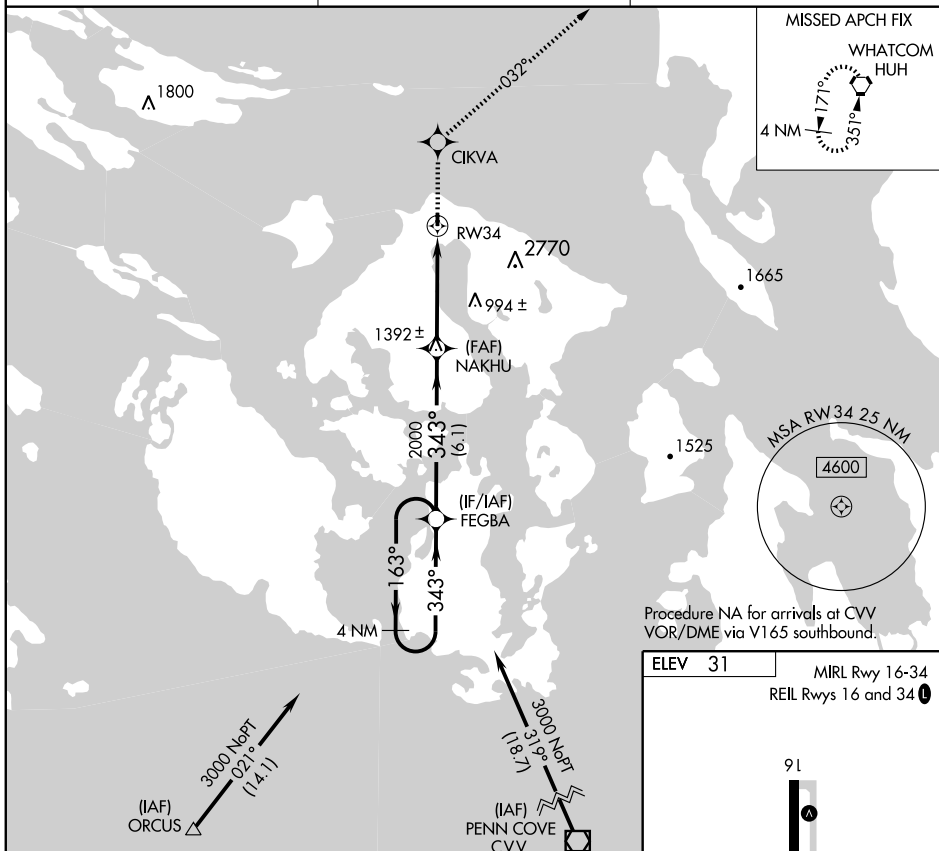
CATEGORY		A	B	C	D
LPV	DA	2466-1		265 (300-1)	
LNAV/ VNAV	DA	2551-1¼		350 (400-1¼)	
LNAV	MDA	2600-1 399 (400-1)			2600-1¼ 399 (400-1¼)
CIRCLING		2700-1 489 (500-1)		2700-1½ 489 (500-1½)	2780-2 569 (600-2)



RNAV (GPS)-A

EASTSOUND/ORCAS ISLAND (ORS)

MISSED APPROACH: Climb to 2000 direct CIKVA and via track 032° to HUH VORTAC and hold.

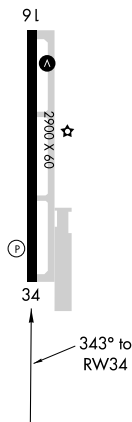
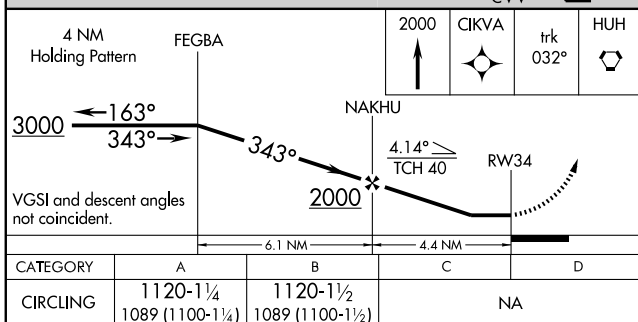
CTAF
128.25 **L**

Procedure NA for arrivals at CVV
VOR/DME via V165 southbound.

ELEV 31

MIRL Rwy 16-34

REIL Rwy 16 and 34 L

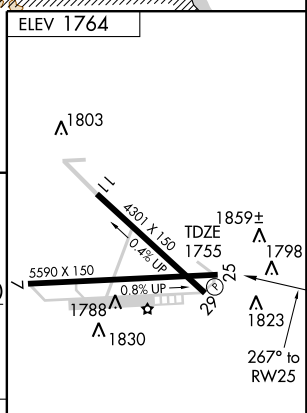


NW-1. 08 APR 2010 to 06 MAY 2010

RNAV (GPS) RWY 25
ELLENSBURG/ BOWERS FIELD (ELN)

MISSED APPROACH:
Climbing left turn to 5400
direct KIYSO and hold.

UNICOM
123.0 (CTAF) **L**



REIL Rwy 29
MIRL Rwy 11-29 **L**

APP CRS
297°

Rwy Idg
TDZE
Apt Elev

4301
1759
1764

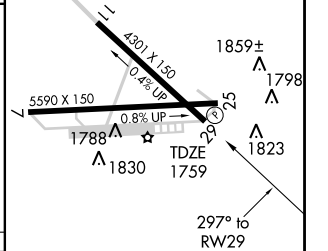
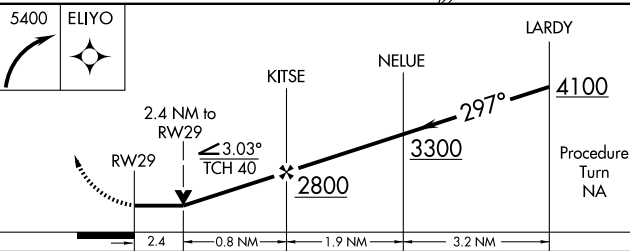
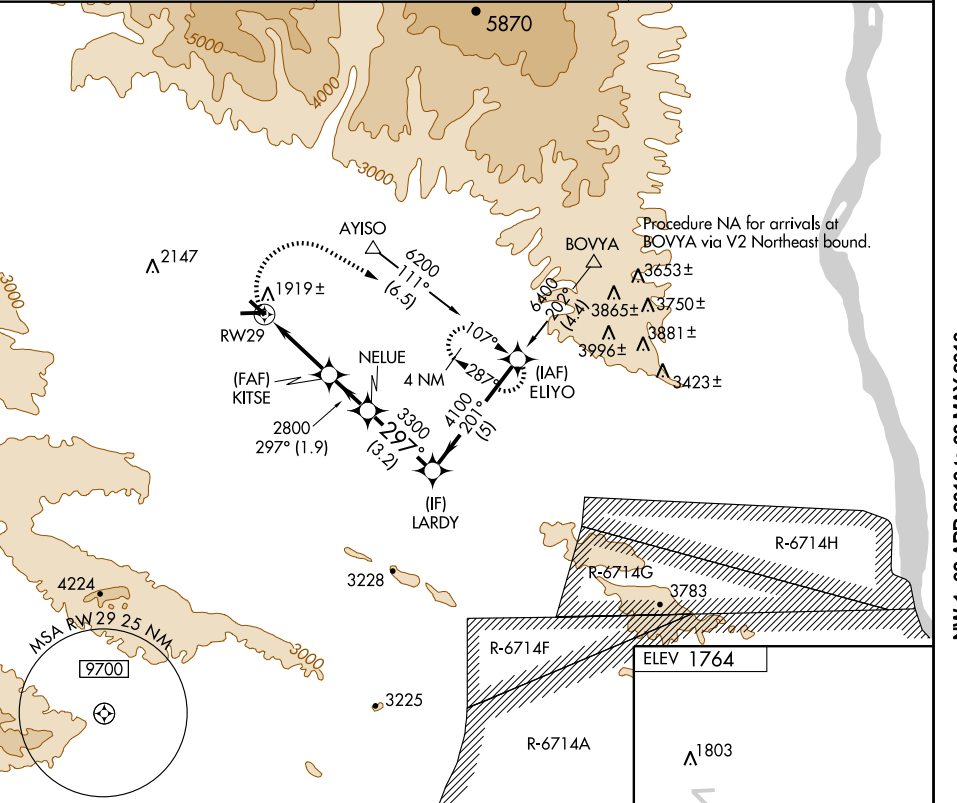
RNAV (GPS) RWY 29

ELLENSBURG/ BOWERS FIELD (ELN)

⚠ DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. When local altimeter setting not received, use Wenatchee altimeter setting and increase all MDA 140 feet and increase visibility LNAV Cat. A and circling Cat. A ¼ mile. VDP NA when using Wenatchee altimeter setting.

MISSED APPROACH: Climbing right turn to 5400 direct ELIYO and hold, continue climb-in hold to 5400.

ASOS 118.375	SEATTLE CENTER 132.6 269.35	UNICOM 123.0 (CTAF) ①
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CATEGORY	A	B	C	D
LNAV MDA	2560-1 801 (800-1)	2560-1¼ 801 (800-1¼)	NA	
CIRCLING	2560-1 796 (800-1)	2560-1¼ 796 (800-1¼)	NA	

REIL Rwy 29
MIRL Rwy 11-29 **①**

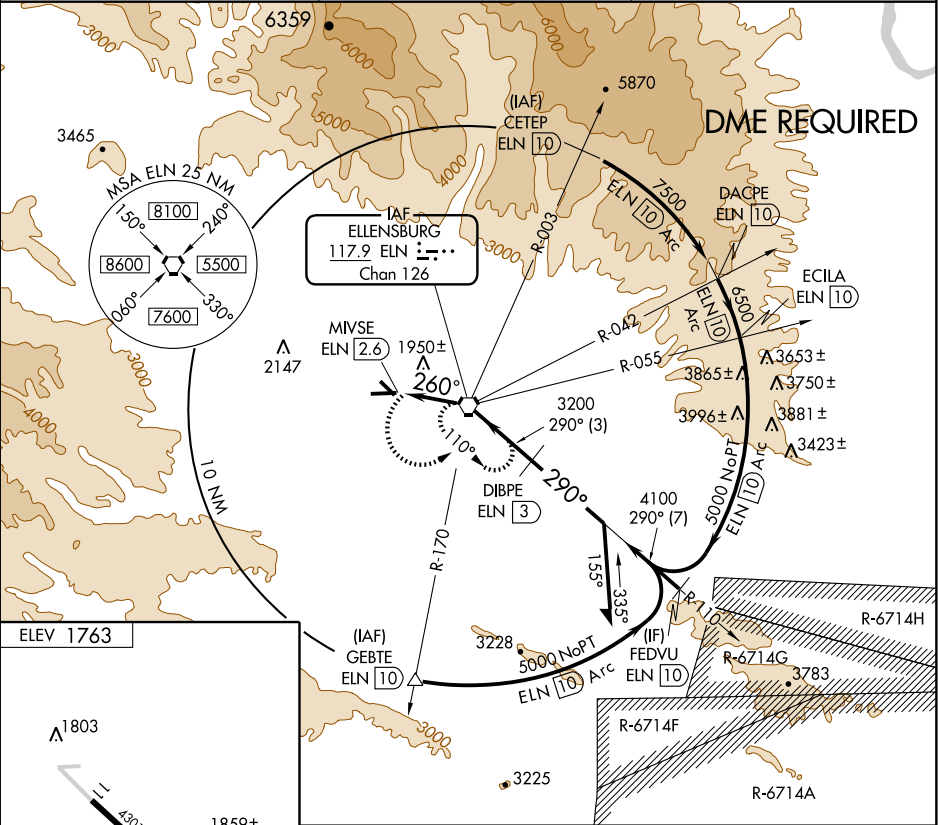
NW-1. 08 APR 2010 to 06 MAY 2010

VORTAC ELN	APP CRS	Rwy Idg TDZE	N/A
117.9	260°		N/A
Chan 126		Apt Elev	1763

VOR/DME-A
ELLENSBURG/BOWERS FIELD (ELN)

<p>▽ If local altimeter setting not received, use Wenatchee altimeter setting and increase all MDAs 140 feet. ▲ NA Procedure not authorized when R-6714A, F, G, H are in operation.</p>	<p>MISSED APPROACH: Climbing left turn to 5000 direct ELN VORTAC and hold.</p>
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ASOS 118.375	SEATTLE CENTER 132.6 269.35	UNICOM 123.0 (CTAF) 0
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<p>REIL Rwy 29 MIRL Rwy 11-29 0</p>	<p>VORTAC</p>	<p>Remain within 10 NM</p>
<p>FAF to MAP 2.6 NM</p>	<p>5000 ELN 117.9</p>	<p>110°</p>
<p>260° 2.6 NM from FAF</p>	<p>MVSE ELN 2.6</p>	<p>290°</p>
<p>3200</p>	<p>DIBPE ELN 3</p>	<p>4100</p>
<p>2.6 NM</p>	<p>3 NM</p>	

FAF to MAP 2.6 NM	CATEGORY	A	B	C	D
Knots 60 90 120 150 180	CIRCLING	2280-1	2340-1	NA	
Min:Sec 2:36 1:44 1:18 1:02 0:52		517 (600-1)	577 (600-1)		

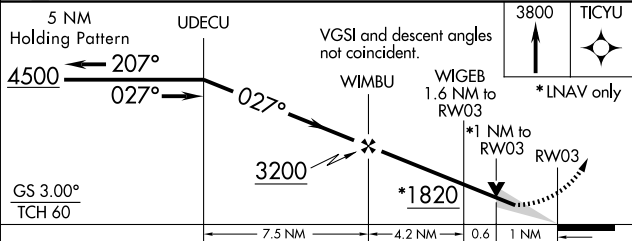
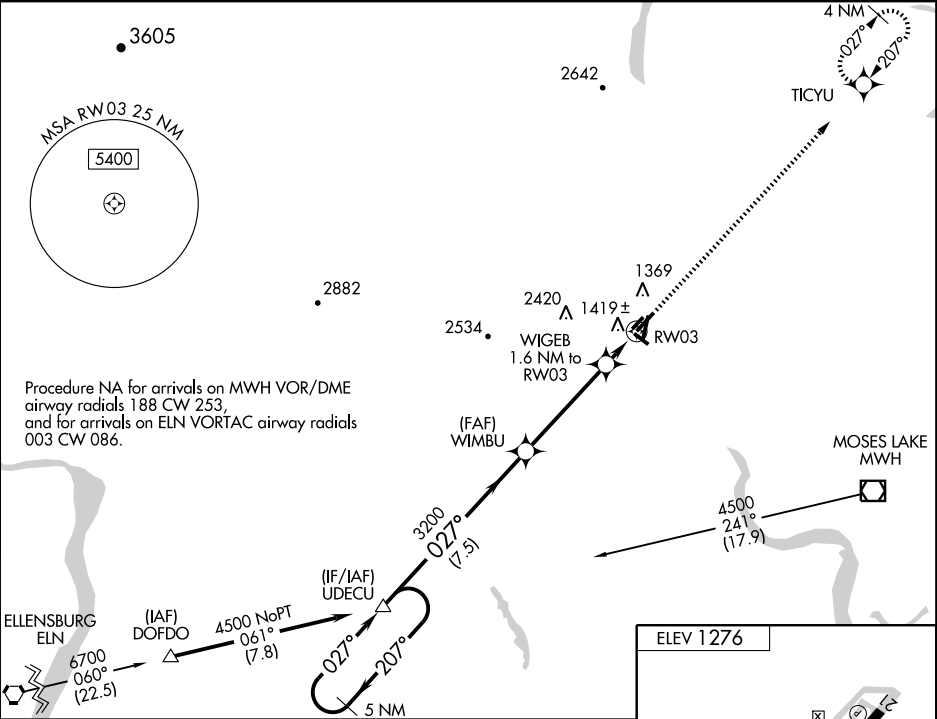
WAAS CH 50208 W03A	APP CRS 027°	Rwy Idg TDZE Apt Elev	5500 1269 1276
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RNAV (GPS) RWY 3
EPHRATA MUNI (EPH)

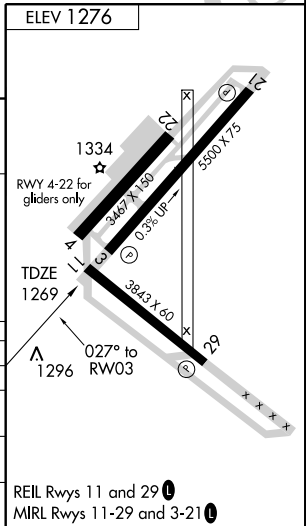
⚠ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C (2°F) or above 46°C (114°F). DME/DME RNP-0.3 NA, VDP and Baro-VNAV NA when using Moses Lake/Grant County Intl altimeter setting. When local altimeter setting not received, use Moses Lake/Grant County Intl altimeter setting and increase all DA/MDA 40 feet and LNAV Cat D visibility ¼ mile.

MISSED APPROACH: Climb to 3800 direct TICYU and hold.

ASOS 135.775	GRANT COUNTY APP CON ★ 126.4 379.95	UNICOM 122.8 (CTAF) 0
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CATEGORY	A	B	C	D
LPV DA	1519-1	250 (300-1)		
LNAV/VNAV DA	1689-1½	420 (500-1½)		
LNAV MDA	1680-1 411 (500-1)	1680-1¼ 411 (500-1¼)		
CIRCLING	1720-1 444 (500-1)	1740-1 464 (500-1)	1780-1½ 504 (600-1½)	2500-3 1224 (1300-3)



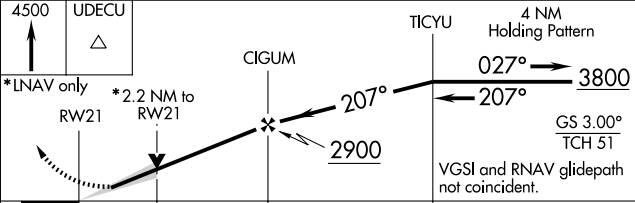
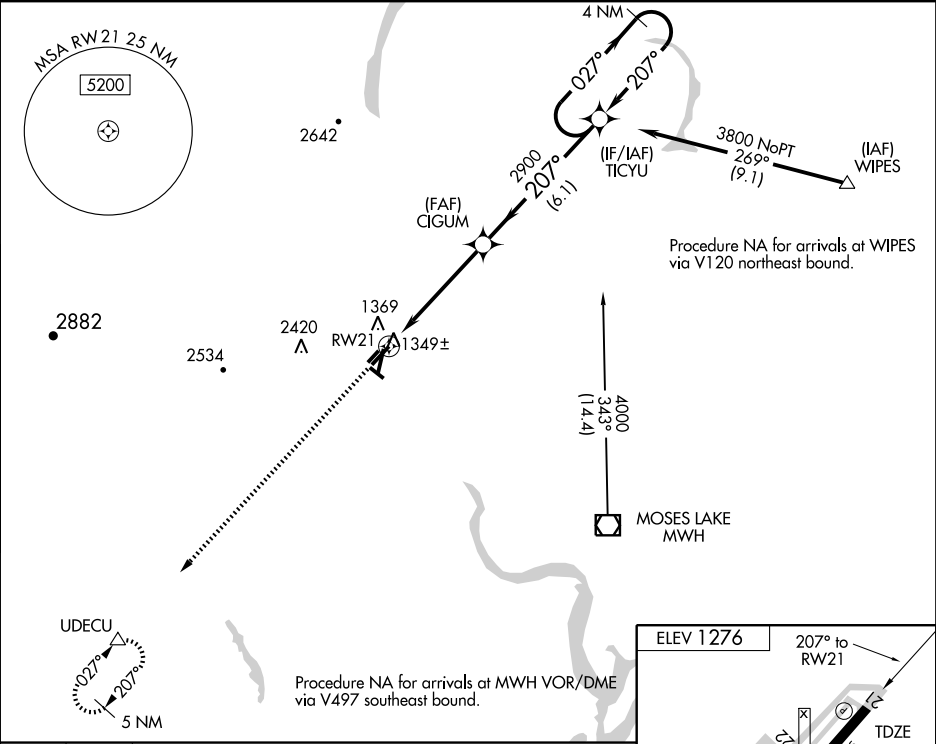
WAAS CH 82308 W21A	APP CRS 207°	Rwy Idg TDZE Apt Elev	5500 1276 1276
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RNAV (GPS) RWY 21
EPHRATA MUNI (EPH)

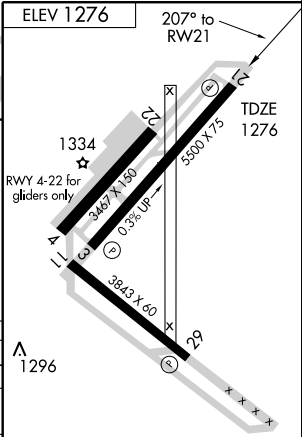
⚠ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C (2°F) or above 46°C (114°F). DME/DME RNP-0.3 NA. VDP and Baro-VNAV NA when using Moses Lake/Grant County Intl altimeter setting. When local altimeter setting not received, use Moses Lake/Grant County Intl altimeter setting and increase all DA/MDA 40 feet; Increase visibility LPV all Cats., LNAV Cats. C and D and Circling Cat. C ¼ mile.

MISSED APPROACH: Climb to 4500 direct UDECU and hold.

ASOS 135.775	GRANT COUNTY APP CON ★ 126.4 379.95	UNICOM 122.8 (CTAF) 0
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CATEGORY	A	B	C	D
LPV DA		1526-3/4	250 (300-3/4)	
LNAV/VNAV DA		2171-4	895 (900-4)	
LNAV MDA	2020-1 744 (800-1)	2020-1 1/4 744 (800-1 1/4)	2020-2 1/4 744 (800-2 1/4)	2020-2 1/2 744 (800-2 1/2)
CIRCLING	2020-1 744 (800-1)	2020-1 1/4 744 (800-1 1/4)	2020-2 1/4 744 (800-2 1/4)	2500-3 1224 (1300-3)



REIL Rwy 11 and 29 0
MIRL Rwy 11-29 and 3-21 0

VORTAC EPH <u>112.6</u> Chan 73	APP CRS 022°	Rwy Idg 5500 TDZE 1269 Apt Elev 1276
--	------------------------	---

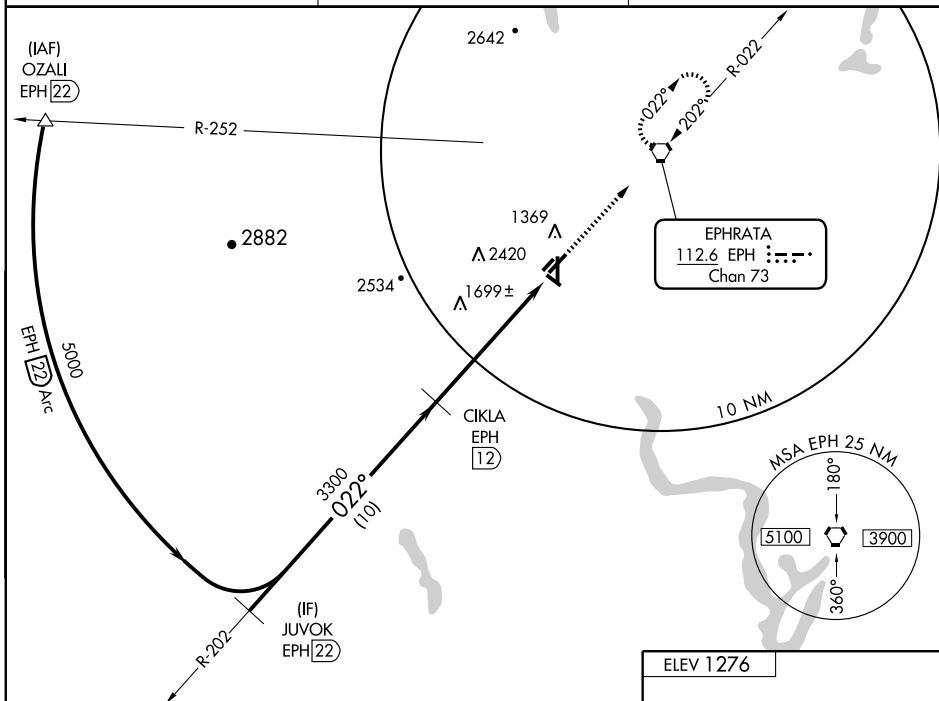
VOR/DME RWY 3
EPHRATA MUNI (EPH)

- T** When local altimeter setting not received, use Moses Lake/Grant County Intl altimeter setting and increase all MDA 40 feet.
- A** VDP NA when using Moses Lake/Grant County Intl altimeter setting.

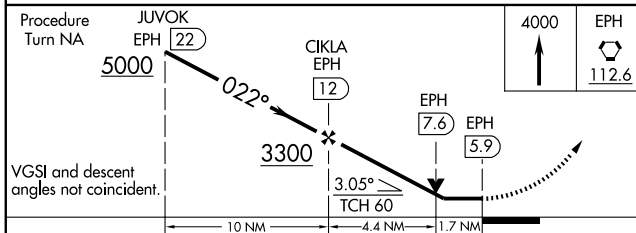
MISSED APPROACH: Climb to 4000 direct EPH
VORTAC and hold, continue climb-in-hold to 4000.

ASOS
135.775

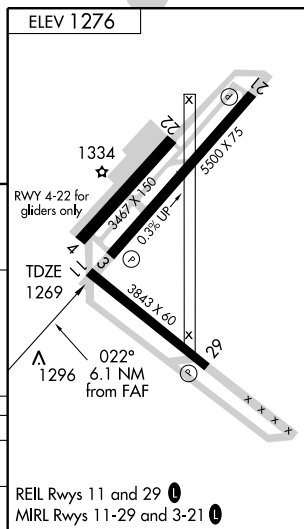
GRANT COUNTY APP CON ★
126.4 379.95

UNICOM
122.8 (CTAF) **L**

NW-1. 08 APR 2010 to 06 MAY 2010



CATEGORY	A	B	C	D
S-3	1960-1	691 (700-1)	1960-2 691 (700-2)	1960-2¼ 691 (700-2¼)
CIRCLING	1960-1	684 (700-1)	1960-2 684 (700-2)	2500-3 1224 (1300-3)



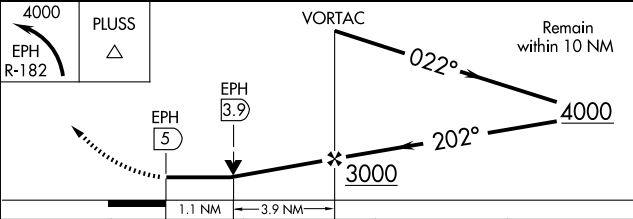
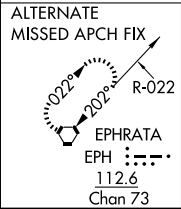
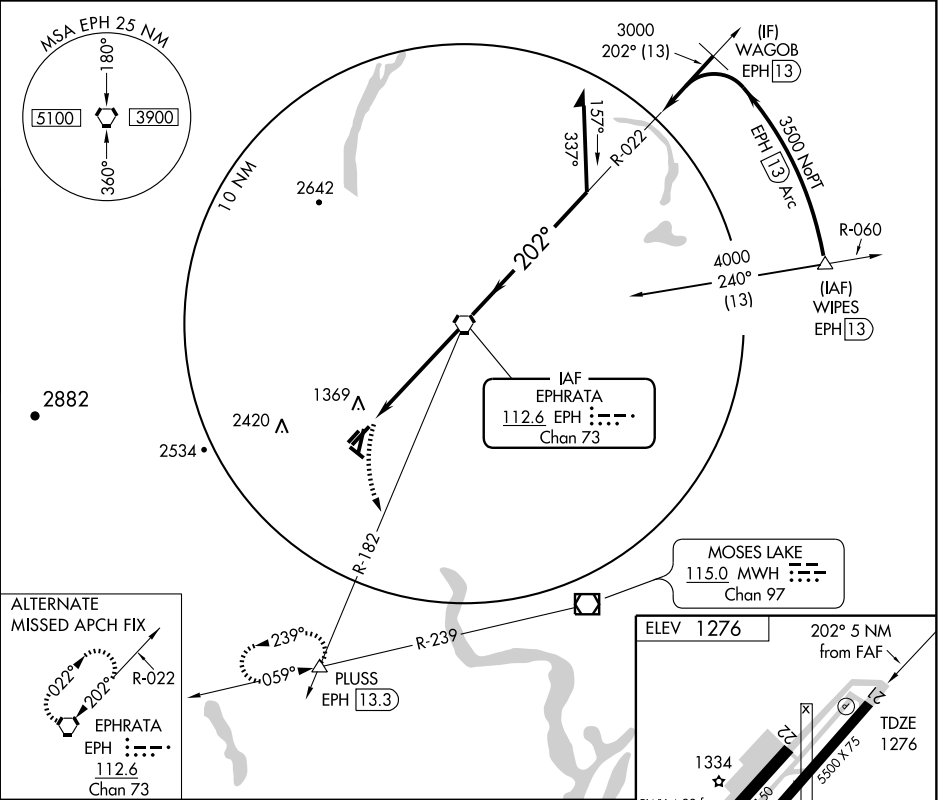
VOR RWY 21
EPHRATA MUNI (EPH)

VORTAC EPH	APP CRS	Rwy Idg	5500
112.6	202°	TDZE	1276
Chan 73		Apt Elev	1276

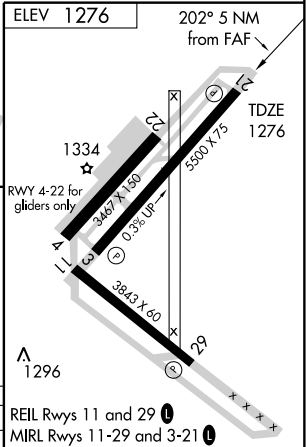
When local altimeter setting not received, use Moses Lake/Grant County Intl altimeter setting and increase all MDA 40 feet, increase S-21 Cat D visibility 1/4 mile. VDP NA when using Moses Lake/Grant County Intl altimeter setting. Final approach from EPH VORTAC holding pattern not authorized. Procedure turn required.

MISSED APPROACH: Climbing left turn to 4000 via EPH R-182 to PLUSS INT/EPH 13.3 DME and hold. Continue climb-in-hold to 4000.

ASOS 135.775	GRANT COUNTY APP CON★ 126.4 379.95	UNICOM 122.8 (CTAF) 1
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CATEGORY	A	B	C	D
S-21	1680-1	404 (500-1)	1680-1 1/4	404 (500-1 1/4)
CIRCLING	1720-1 444 (500-1)	1740-1 464 (500-1)	1780-1 1/2 504 (600-1 1/2)	2500-3 1224 (1300-3)

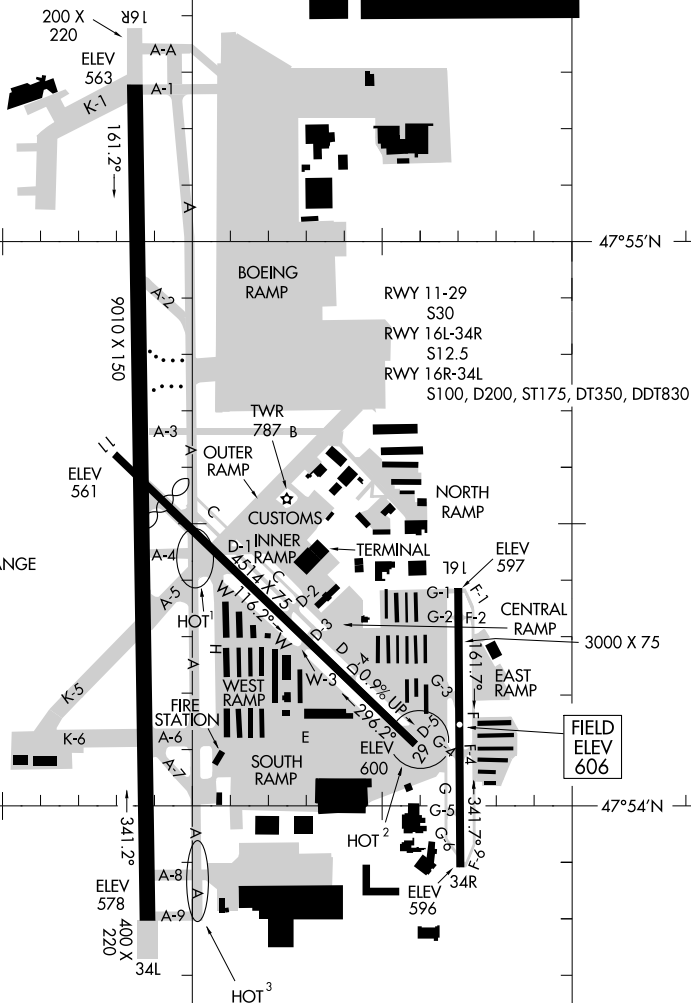


FAF to MAP 5 NM					
Knots	60	90	120	150	180
Min:Sec	5:00	3:20	2:30	2:00	1:40

AIRPORT DIAGRAM

 EVERETT/SNOHOMISH COUNTY (PAINE FIELD) (P.A.E)
 AL-142 (FAA) EVERETT, WASHINGTON

ATIS
 128.65
 PAINE TOWER★
 120.2 256.7 (East of Rwy 16L-34R)
 132.95 256.7 (West of Rwy 16R-34L)
 GND CON
 121.8 339.8
 CLNC DEL
 126.75



CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
 READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

NW-1. 08 APR 2010 to 06 MAY 2010

ILS or LOC/DME RWY 16R

EVERETT/SNOHOMISH COUNTY (PAINE FIELD) (PAE)

MALSR
A5

MISSED APPROACH: Climb to 1300 then climbing right turn to 3000 via heading 014° and PAE VOR/DME R-338 to WEBVE INT/PAE 13.9 DME and hold.

ELEV 606

TDZE
570

159° 7.8 NM
from FAF

391

A₅
707±

A₆
689±

TWR
787

697

791

672±

34L

34R

451.4 x .75

HIRL Rwy 16R-34L
REIL Rwys 16L and 34R
MIRL Rwys 11-29 and 16L-34R

FAF to MAP 7.8 NM

Knots	60	90	120	150	180
Min:Sec	7:48	5:12	3:54	3:07	2:36

One Minute Holding Pattern

WEVBE INT PAE 13.9

JUGBA PAE 7.9

3000

339°

159°

3000

3000

014°

PAE R-338 110.6

WEVBE INT

GS 2.80°


TCH 57

6 NM

7.8 NM


CATEGORY	A	B	C	D
S-ILS 16R	786/24 216 (200-½)			
S-LOC 16R	1020/24 450 (500-½)		1020/40 450 (500-¾)	1020/50 450 (500-1)
CIRCLING	1100-1 494 (500-1)		1100-1½ 494 (500-1½)	1160-2 554 (600-2)


ATIS 128.65
CLNC DEL
126.75
GND CON
121.8 339.8
PAINE TOWER ★
120.2 256.7 (E of Rwy 16L-34R)
132.95 (CTAF) 256.7 (W of Rwy 16R-34L)
SEATTLE CENTER
128.5 306.9


WHATCOM
113.0 HUH 
Chan 77
N48°56.72'-W122°34.76'
L-1, H-1


TAKE-OFF MINIMUMS


Rwys 16R, 34L, 34R: Standard.
Rwys 11, 16L, 29: 300-1.


WHIDBEY ISLAND
113.8 NUW 
Chan 85
N48°21.30'-W122°39.71'
L-1, H-1


PAINE
110.6 PAE 
Chan 43
N47°55.19'-W122°16.67'
L-1, H-1


SEATTLE
116.8 SEA 
Chan 115
N47°26.12'-W122°18.58'
L-1, H-1


WENATCHEE
111.0 EAT 
Chan 47
N47°23.98'-W120°12.65'
L-13

McCHORD
109.6 TCM 
Chan 33
N47°08.86'-W122°28.50'
L-1, H-1

ELLENSBURG
117.9 ELN 
Chan 126
N47°01.46'-W120°27.51'
L-13, H-1

HOQUIAM
117.7 HQM 
Chan 124
N46°56.82'-W124°08.96'
L-1, H-1

OLYMPIA
113.4 OLM 
Chan 81
N46°58.30'-W122°54.11'
L-1, H-1

YAKIMA
116.0 YKM 
Chan 107
N46°34.22'-W120°26.68'
L-13, H-1

TAKE-OFF OBSTACLE NOTES

Rwy 11: 72' AGL tree 1160' from DER, 600' left of centerline.

Rwy 16L: 68' and 101' AGL trees 1040' to 1820' from DER, 480' to 560' left of centerline.

Rwy 29: 56', 69', 101', 128' AGL trees 340' to 2140' from DER.

NOTE: Center may assign initial heading to be flown and vector departures in all quadrants within 10 miles of the Paine Airport provided no altitude restrictions are imposed prior to reaching MVA.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

Fly Runway heading or as assigned; expect vectors to join assigned route.

Maintain assigned altitude; expect filed altitude/flight level five minutes after departure.

LOST COMMUNICATIONS: If not in contact with SEATTLE CENTER upon reaching 2000', continue climb to assigned altitude and proceed direct to PAE VOR/DME. Thence via assigned route.

WAAS CH 60911 W16A	APP CRS 159°	Rwy ldg TDZE Apt Elev	9010 570 606
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RNAV (GPS) RWY 16R

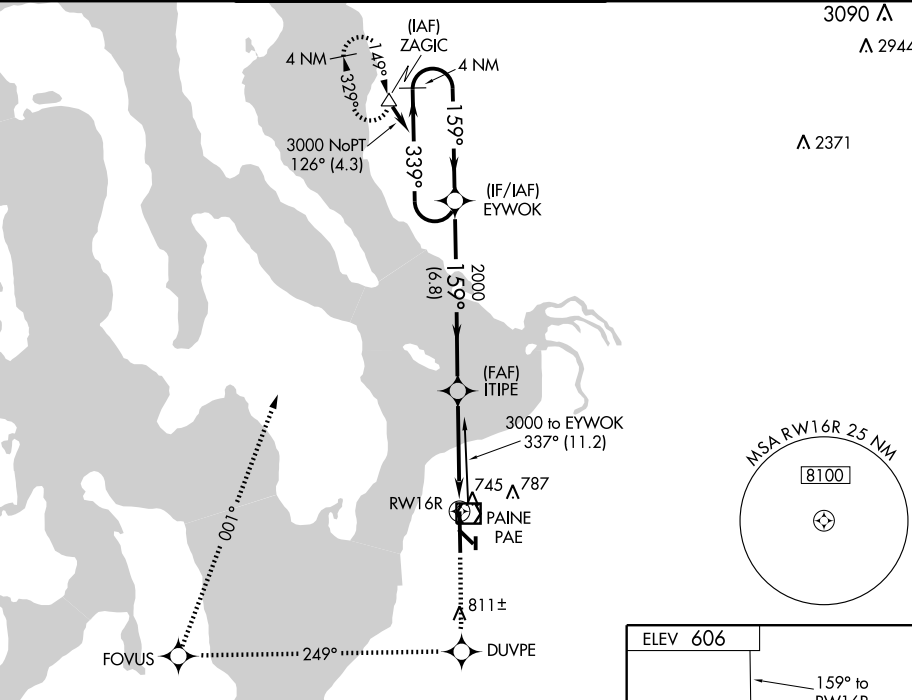
EVERETT/SNOHOMISH COUNTY (PAINE FIELD) (PAE)

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or above 47°C (116°F).
DME/DME RNP-0.3 NA.
For inoperative MALSR, increase LPV all Cats visibility to RVR 5000.

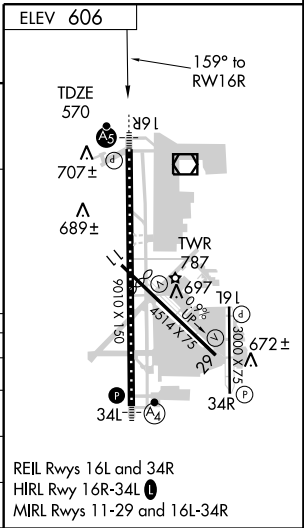
MALSR

MISSED APPROACH: Climb to 3000 direct DUVPE and via track 249° to FOVUS and via track 001° to ZAGIC and hold.

ATIS 128.65	SEATTLE CENTER 128.5 306.9	PAINE TOWER★ (E of Rwy 16L-34R) (W of Rwy 16R-34L) 120.2 256.7 132.95 (CTAF) 256.7	GND CON 121.8 339.8	CLNC DEL 126.75	UNICOM 122.95
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VGSI and RNAV glidepath not coincident.		3000	DUVPE	FOVUS	ZAGIC
4 NM Holding Pattern		↑	✱	✱	△
EYWOK		3000	DUVPE	FOVUS	ZAGIC
← 339° →		3000	DUVPE	FOVUS	ZAGIC
159°		3000	DUVPE	FOVUS	ZAGIC
GS 3.00° TCH 51		3000	DUVPE	FOVUS	ZAGIC
2000		3000	DUVPE	FOVUS	ZAGIC
159°		3000	DUVPE	FOVUS	ZAGIC
ITPE		3000	DUVPE	FOVUS	ZAGIC
*1.4 NM to RW16R		3000	DUVPE	FOVUS	ZAGIC
RW16R		3000	DUVPE	FOVUS	ZAGIC
*LNAV only		3000	DUVPE	FOVUS	ZAGIC
6.8 NM		3000	DUVPE	FOVUS	ZAGIC
2.9 NM		3000	DUVPE	FOVUS	ZAGIC
1.4 NM		3000	DUVPE	FOVUS	ZAGIC
CATEGORY	A	B	C	D	
LPV DA	830/24		260 (300-½)		
LNAV/VNAV DA	1045/60		475 (500-1¼)		
LNAV MDA	1060/24		490 (500-½)	1060/40 490 (500-¾)	1060/50 490 (500-1)
CIRCLING	1100-1		494 (500-1)	1100-½ 494 (500-1½)	1180-2 574 (600-2)



REIL Rwy 16L and 34R
HIRL Rwy 16R-34L
MIRL Rwy 11-29 and 16L-34R

WAAS CH 65611 W34A	APP CRS 339°	Rwy Idg TDZE Apt Elev	9010 579 606
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RNAV (GPS) RWY 34L

EVERETT/SNOHOMISH COUNTY (PAINE FIELD) (P.A.E.)



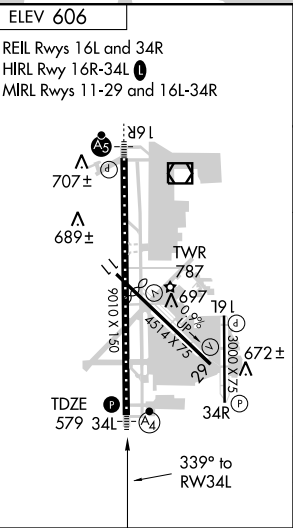
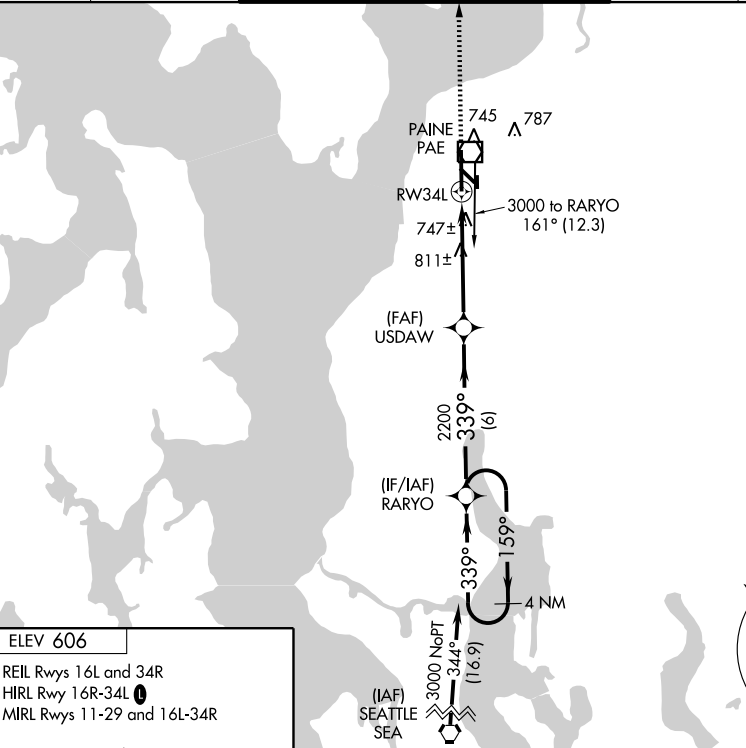
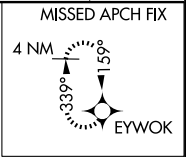
DME/DME RNP-0.3 NA.
Baro-VNAV NA below -16°C (4°F).
Inoperative table does not apply to LPV and LNAV/VNAV
all Cats and LNAV Cat C.

MALSF



MISSED APPROACH: Climb to 3000 direct
EYWOK and hold.

ATIS 128.65	SEATTLE CENTER 128.5 306.9	PAINE TOWER* (E of Rwy 16L-34R) (W of Rwy 16R-34L) 120.2 256.7 132.95 (CTAF) 256.7	GND CON 121.8 339.8	CLNC DEL 126.75	UNICOM 122.95
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3000	EYWOK	VGSI and RNAV glidepath not coincident.	RARYO	4 NM Holding Pattern
*LNAV only	*1.5 NM to RW34L	USDAW	339°	159° → 3000
			2200	← 339°
	1.5	3.4 NM	6 NM	GS 3.00° TCH 51
CATEGORY	A	B	C	D
LPV DA	920-1¼ 341 (400-1¼)			
LNAV/VNAV DA	1040-1½ 461 (500-1½)			
LNAV MDA	1140-¾ 561 (600-¾)		1140-1½ 561 (600-1½)	1140-1¾ 561 (600-1¾)
CIRCLING	1140-1½ 534 (600-1½)			1180-2 574 (600-2)

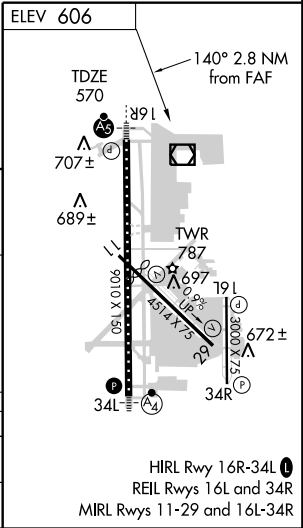
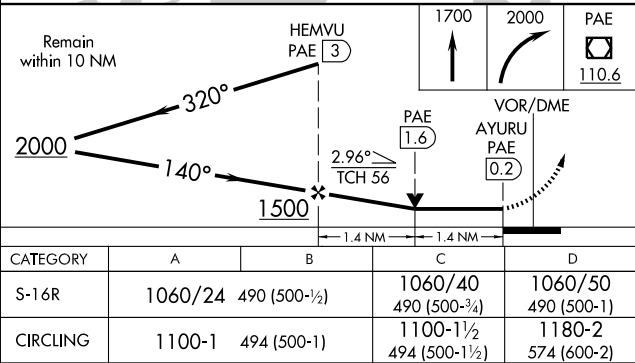
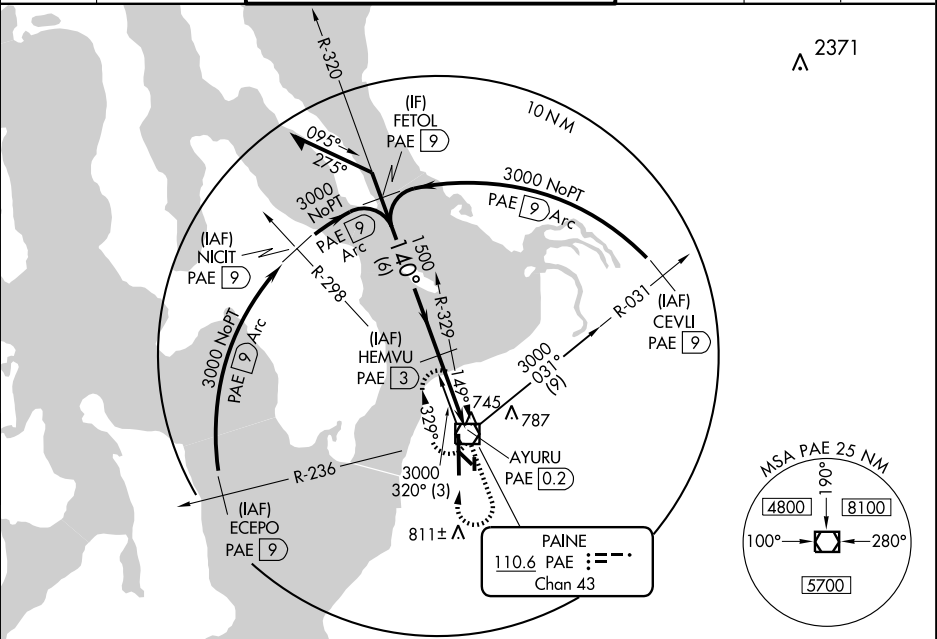
VOR/DME PAE 110.6 Chan 43	APP CRS 140°	Rwy Idg TDZE Apt Elev	9010 570 606
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VOR/DME RWY 16R

EVERETT/SNOHOMISH COUNTY (PAINE FIELD) (PAE)

	MALS R	MISSED APPROACH: Climb to 1700 then climbing right turn to 2000 direct PAE VOR/DME and hold.
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ATIS 128.65	SEATTLE CENTER 128.5 306.9	PAINE TOWER★ (E of Rwy 16L-34R) (W of Rwy 16R-34L) 120.2 256.7 132.95 (CTAF) 256.7	GND CON 121.8 339.8	CLNC DEL 126.75	UNICOM 122.95
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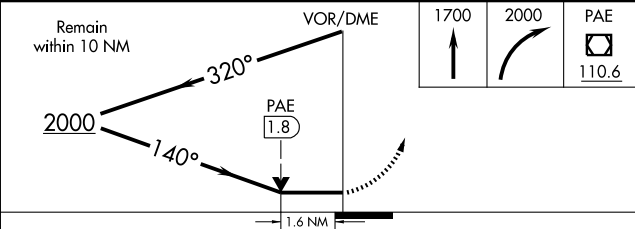
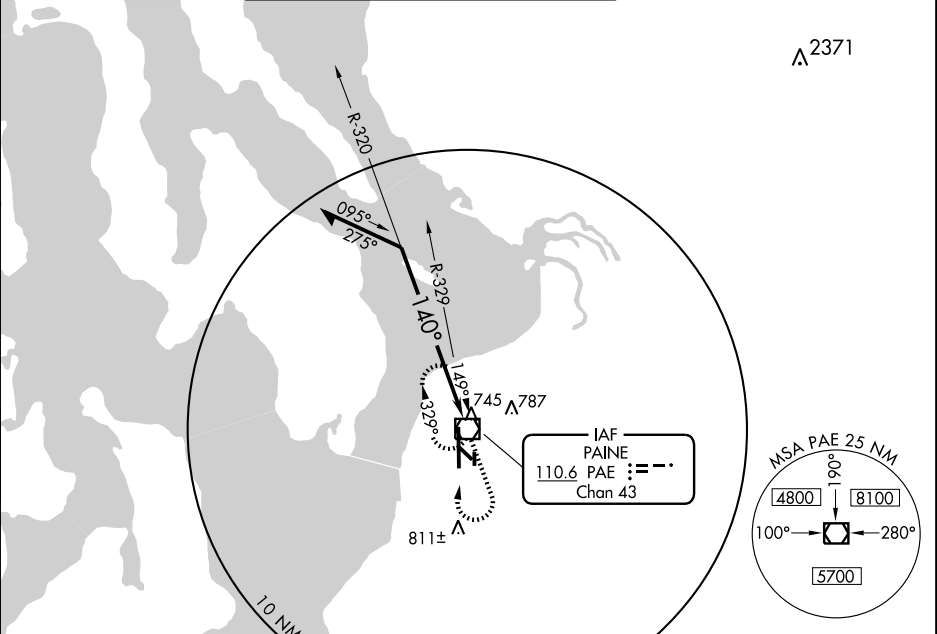
VOR/DME PAE	APP CRS	Rwy Idg	9010
110.6	140°	TDZE	570
Chan 43		Apt Elev	606

VOR RWY 16R

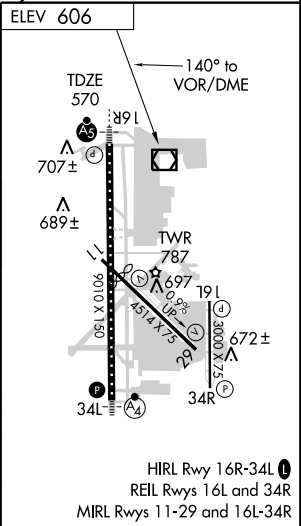
EVERETT/SNOHOMISH COUNTY (PAINE FIELD) (PAE)

	MALSR 	MISSED APPROACH: Climb to 1700 then climbing right turn to 2000 direct PAE VOR/DME and hold.
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ATIS 128.65	SEATTLE CENTER 128.5 306.9	PAINE TOWER★ (E of Rwy 16L-34R) (W of Rwy 16R-34L) 120.2 256.7 132.95 (CTAF) 256.7	GND CON 121.8 339.8	CLNC DEL 126.75	UNICOM 122.95
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CATEGORY	A	B	C	D
S-16R	1100/24 530 (500-½)		1100/50 530 (500-1)	1100/60 530 (500-1¼)
CIRCLING	1100-1 494 (500-1)		1100-1½ 494 (500-1½)	1180-2 574 (600-2)



HIRL Rwy 16R-34L
REIL Rwy 16L and 34R
MIRL Rwy 11-29 and 16L-34R

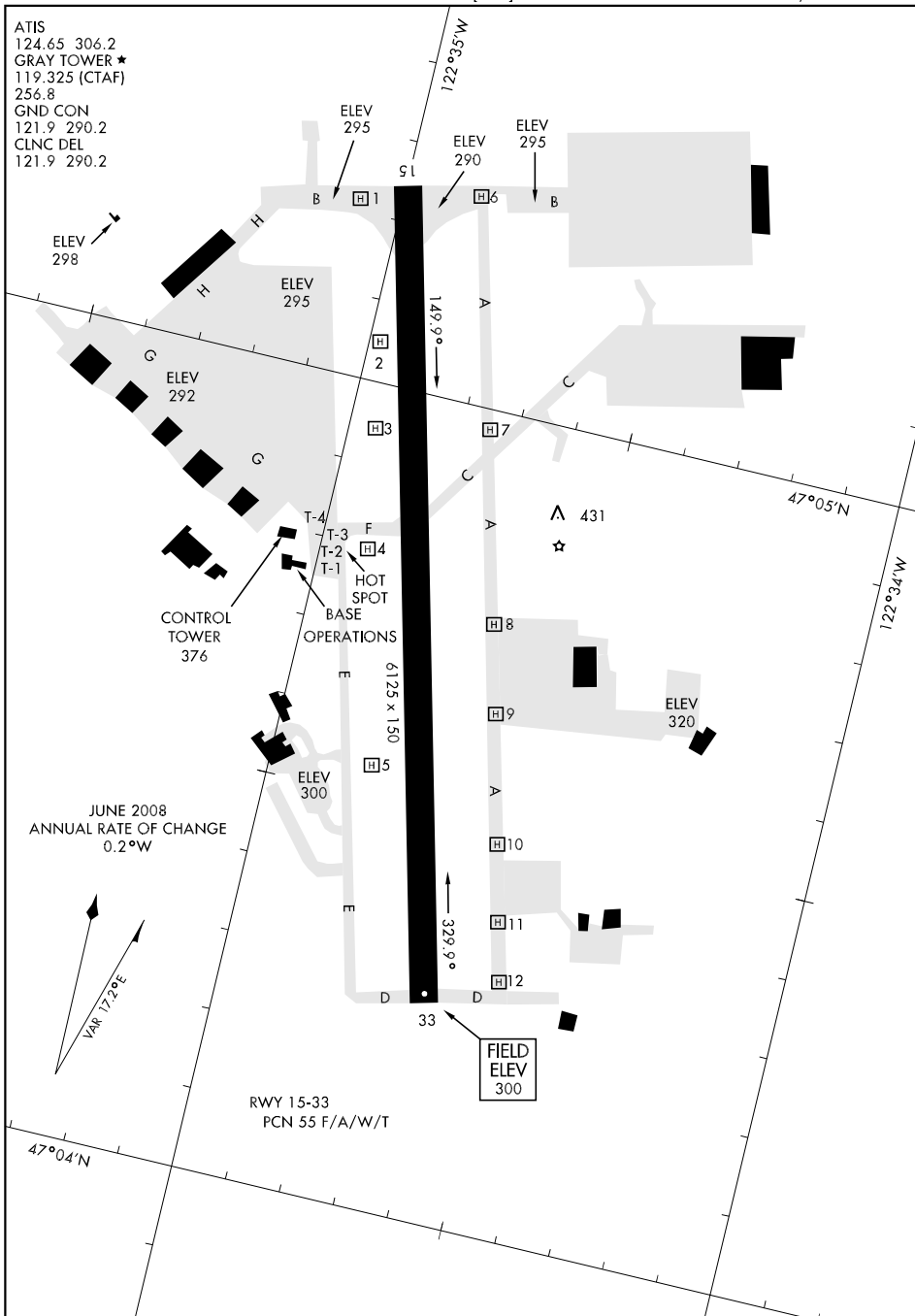
AIRPORT DIAGRAM

AFD-413 [USA]

FORT LEWIS, WASHINGTON

ATIS
124.65 306.2
GRAY TOWER ★
119.325 (CTAF)
256.8
GND CON
121.9 290.2
CLNC DEL
121.9 290.2

NW-1, 08 APR 2010 to 06 MAY 2010






AIRPORT DIAGRAM

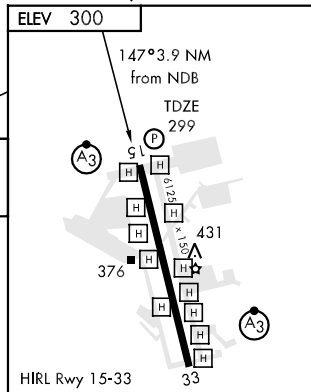
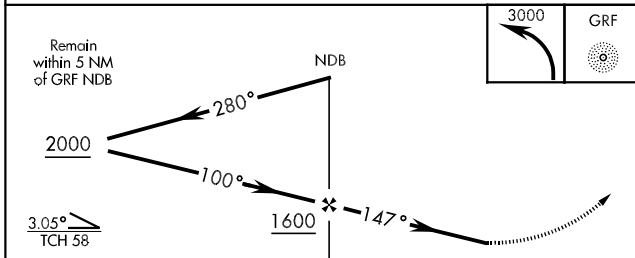
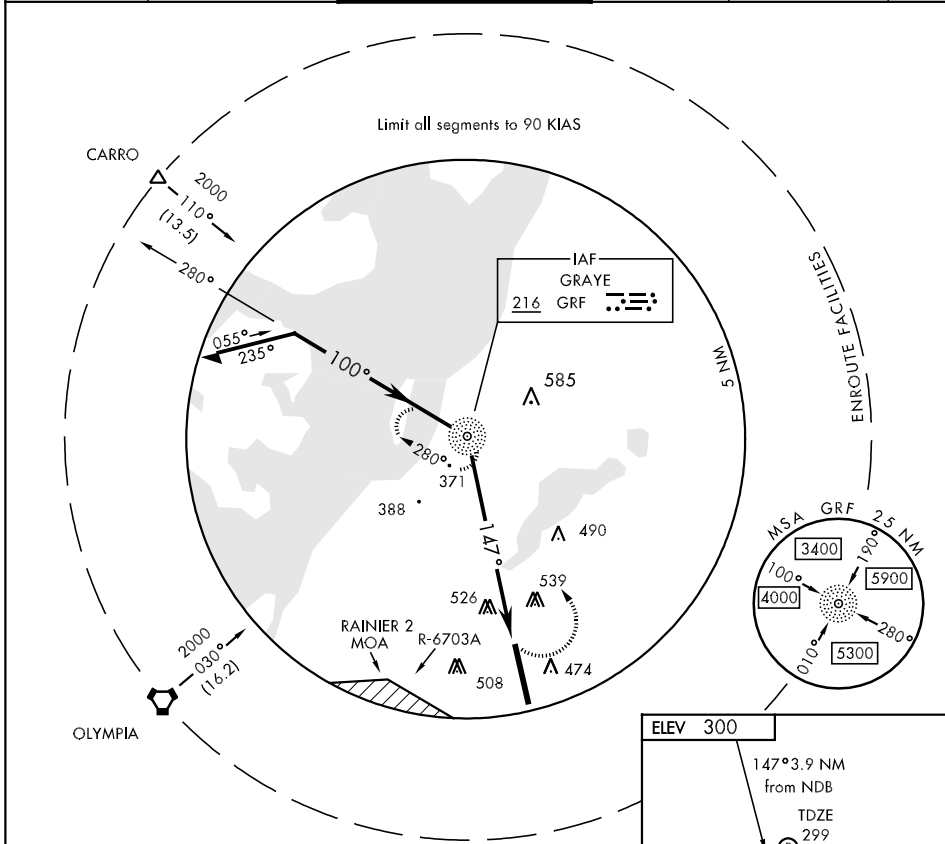
FORT LEWIS, WASHINGTON

NDB GRF 216	APCH CRS 147°	Rwy ldg TDZE Arpt Elev 6125 299 300
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AL-413 [USA]

GRAY AAF (KGRF)

 	* When ALS inop increase RVR to 24 and vis to ½ mile.		MISSED APPROACH: Climbing left turn to 3000 direct GRF NDB and hold.		
ATIS 124.65 306.2	SEATTLE APP CON 120.1 290.9	GRAY TOWER ★ 119.325 (CTAF) 256.8	GND CON 121.9 290.2	CLNC DEL 121.9 290.2	PAR



CATEGORY	COPTER	Knots	45	60	75	90	105
H-15 *	840/12 541 (600-¼)	Min:Sec	5:12	3:54	3:08	2:36	2:14

LOC I-GRF 108.3 Chan 20	APCH CRS 147°	Rwy Idg TDZE Arpt Elev 6125 299 300
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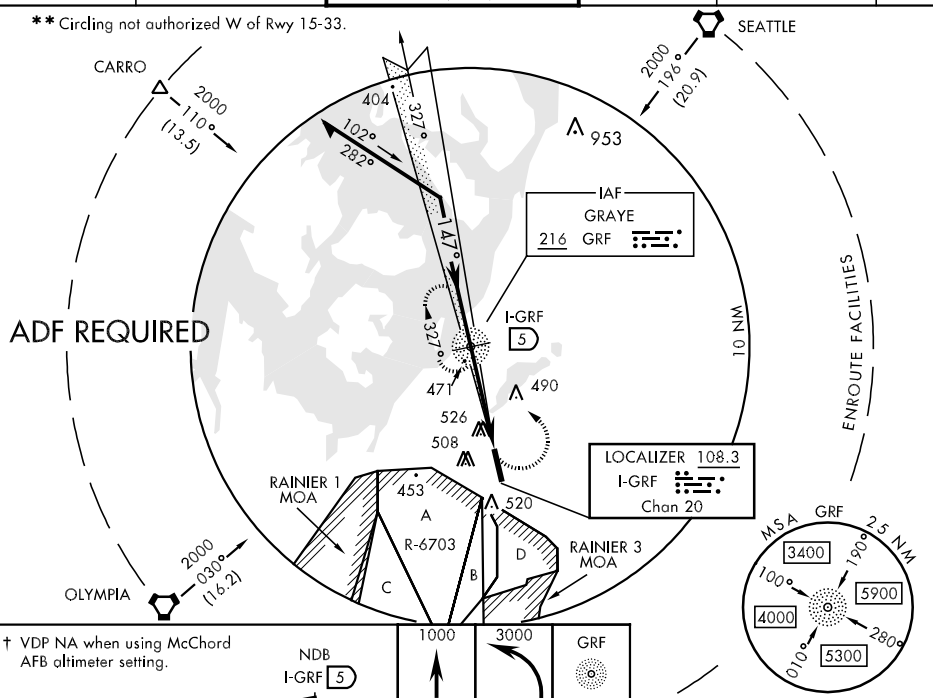
AL-413 [USA]

GRAY AAF (KGRF)

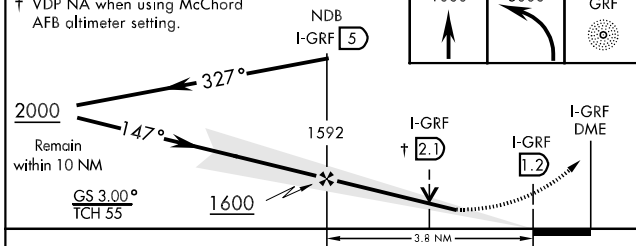
<p>▽</p> <p>▲</p> <p>* When ALS inop, increase CAT CD RVR to 50 and vis to 1 mile.</p>	<p>SSALR</p> <p>A3</p>	<p>MISSED APPROACH: Climb to 1000, then climbing left turn to 3000 direct GRF NDB and hold, continue climb-in-hold to 3000.</p>
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ATIS 124.65 306.2	SEATTLE APP CON 120.1 290.9	GRAY TOWER ★ 119.325 (CTAF) 256.8	GND CON 121.9 290.2	CLNC DEL 121.9 290.2	PAR
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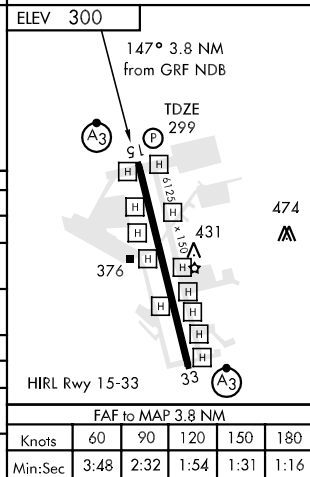
** Circling not authorized W of Rwy 15-33.



† VDP NA when using McChord AFB altimeter setting.



CATEGORY	A	B	C	D
S-ILS 15		499/24	200	(200-½)
S-LOC 15 *	660/24	361 (400-½)	660/40	361 (400-¾)
CIRCLING **	780-1	480 (500-1)	780-1½ 480 (500-1½)	860-2 560 (600-2)
McCHORD AFB ALTIMETER SETTING MINIMUMS				
S-ILS 15		515/24	216	(300-½)
S-LOC 15 *	680/24	381 (400-½)	680/40	381 (400-¾)
CIRCLING **	800-1	500 (500-1)	800-1½ 500 (500-1½)	880-2 580 (600-2)



FORT LEWIS, WASHINGTON

47°05'N-122°35'W

GRAY AAF (KGRF)

Amdt 6 10098

NW-1, 08 APR 2010 to 06 MAY 2010

ATIS 124.65 306.2
CLNC DEL
121.9 290.2
GND CON
121.9 290.2
GRAY TOWER ★
119.325 (CTAF) 256.8
SEATTLE DEP CON
120.1 290.9

Rwy	Knots	60	120	180	240
15 (a)	V/V(fpm)	430	860	1290	1720
33 (b)	V/V(fpm)	380	760	1140	1520

ATC Climb Rate

(a) To 500'

(b) To 600'



SEATTLE
116.8 SEA
Chan 115

R-202

270°

202°

600'

558

R-6703

600'

OLYMPIA
113.4 OLM
Chan 81
L-1

MC CHORD
109.6 TCM
Chan 33

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 15 AND 33:

Climb via runway heading to 600', then turn left (unless otherwise directed by ATC) heading 270 for vectors to assigned route. Maintain altitude as assigned by ATC. Expect filed altitude within five minutes after departure.

LOST COMMUNICATIONS: If no transmissions are received within three minutes after departure, continue climb to assigned altitude, intercept and proceed via SEA R-202 to OLM VORTAC, thence via assigned route.

NW-1, 08 APR 2010 to 06 MAY 2010

NDB GRF 216	APCH CRS 147°	Rwy Idg TDZE Arpt Elev 6125 299 300
-----------------------	-------------------------	---

AL-413 [USA]

GRAY AAF (KGRF)

▼ * When ALS inop increase CAT AB RVR to 50 and vis to 1 mile, CAT C vis to 1½ miles, CAT D vis to 1¾ miles.

▲ ** Circling not authorized W of Rwy 15-33.

SSALR



MISSED APPROACH: Climbing left turn to 3000 direct GRF NDB and hold.

ATIS
124.65 306.2

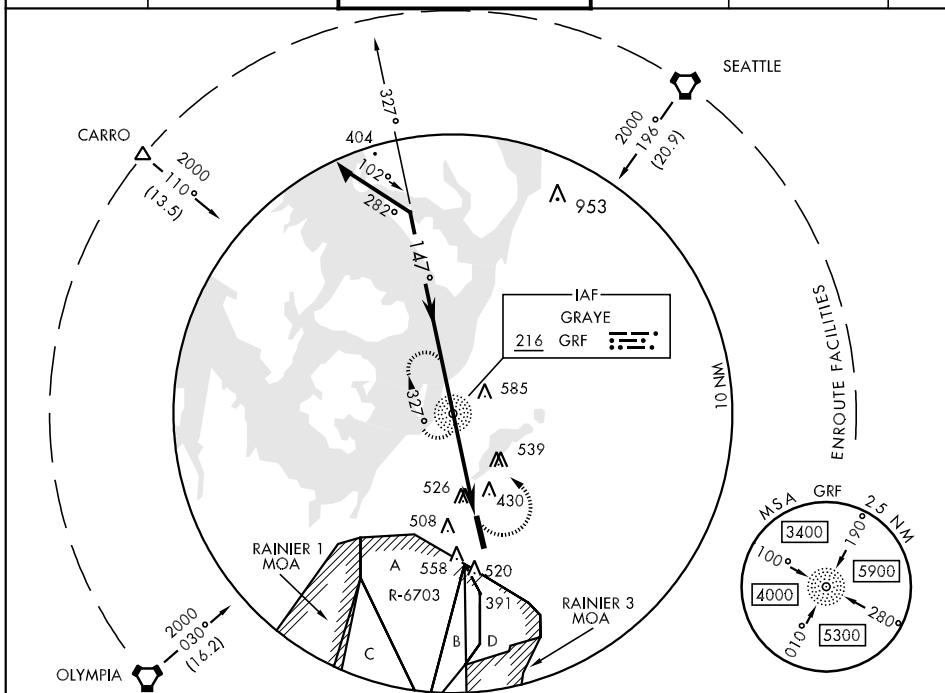
SEATTLE APP CON
120.1 290.9

GRAY TOWER ★
119.325 (CTAF) 256.8

GND CON
121.9 290.2

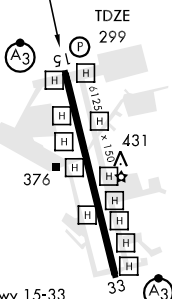
CLNC DEL
121.9 290.2

PAR



ELEV 300

147° 3.9 NM
from NDB



HIRL Rwy 15-33

FAF to MAP 3.9 NM

Knots	60	90	120	150	180
Min:Sec	3:54	2:36	1:57	1:34	1:18

Remain
within 10 NM

2000

2.85°
TCH 40

NDB

3000

GRF



1600

3.9 NM

CATEGORY	A	B	C	D
S-15 *	840/24 541 (600-½)	840/50 541 (600-1)	840-60 541 (600-1¼)	840-60 541 (600-1¼)
CIRCLING **	840-1 540 (600-1)	840-1½ 540 (600-½)	860-2 560 (600-2)	860-2 560 (600-2)
McCHORD AFB ALTITUDE SETTING MINIMUMS				
S-15 *	860/24 561 (600-½)	860/50 561 (600-½)	860-60 561 (600-1¼)	860-60 561 (600-1¼)
CIRCLING **	860-1½ 560 (600-½)	860-2 560 (600-2)	880-2½ 580 (600-2½)	880-2½ 580 (600-2½)

NDB LAC
328

APCH CR
327°

Rwy Idg	6125
TDZE	300
Arpt Elev	300

AL-413 [USA]

GRAY AAF (KGRF)



* When ALS inop increase CAT AB vis to 1 mile, CAT C vis to 1 ¼ miles, CAT D vis to 1½ miles.



* * Circling not authorized W of Rwy 15-33.

SSALR



MISSED APPROACH: Climb to 2000
direct to GRF NDB and hold.

ATIS

124.65 306.2

SEATTLE APP CON

120.1 290.9

GRAY TOWER ★

119.325 (CTAF) 256.8

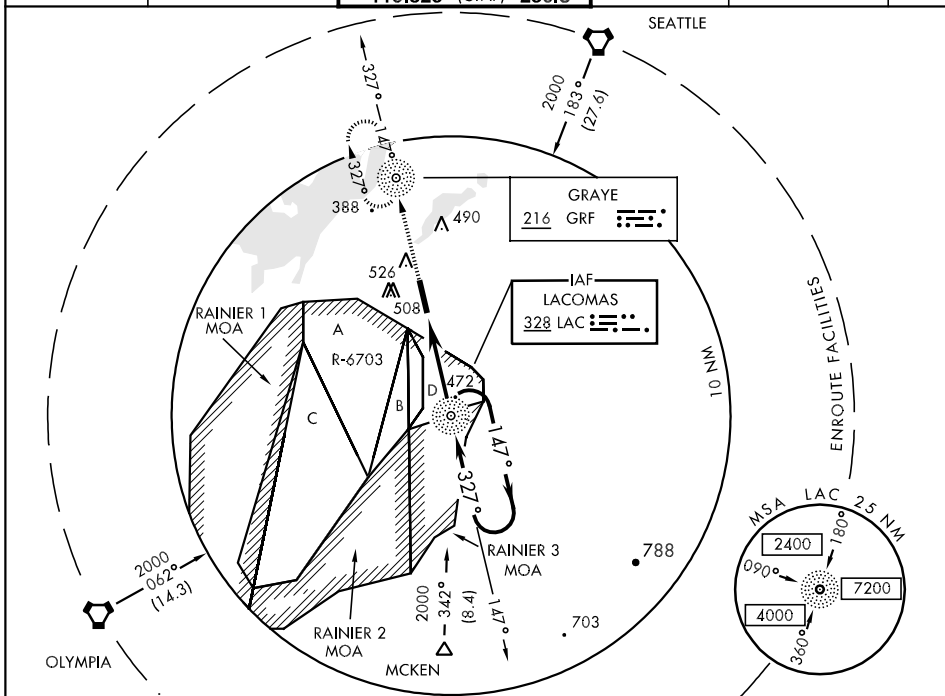
GND CON

121.9 290.2

CLNC DEL

121.9 290.2

PAR



2000

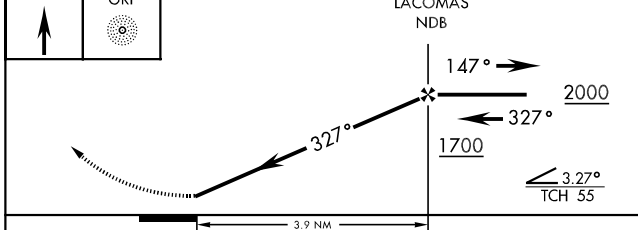


GRE



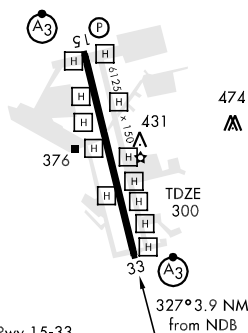
LACOMAS
NDB

FLFV 300



CATEGORY	A	B	C	D
S-33 *	780-1/2 480 (500-1/2)	780-3/4 480 (500-3/4)	780-1 480 (500-1)	
CIRCLING **	780-1 480 (500-1)	780-1 1/2 480 (500-1 1/2)	860-2 560 (600-2)	
McCHORD AFB ALTIMETER SETTING MINIMUMS				
S-33 *	800-1/2 500 (600-1/2)	800-3/4 500 (600-3/4)	800-1 500 (600-1)	
CIRCLING **	800-1 500 (600-1)	800-1 1/2 500 (600-1 1/2)	880-2 580 (600-2)	

FIFV 300



HIRL Rwy 15-33

FAF to MAP 3.9 NM

Knots	60	90	120	150	180
Min:Sec	3:54	2:36	1:57	1:34	1:18

FORT LEWIS, WASHINGTON

47°05'N-122°35'W

GRAY AAF (KGRF)

Amdt 6 10098

MAY 2000

APCH CRS **147°**
 Rwy Idg **6125**
 TDZE **299**
 Arpt Elev **300**

AL-413 [USA]

GRAY AAF (KGRF)



* Circling not authorized W of Rwy 15-33.

DME/DME RNP-0.3 NA

SSALR



MISSED APPROACH: Climbing left
 turn to 2000 direct CIKRI and hold.

ATIS
124.65 306.2

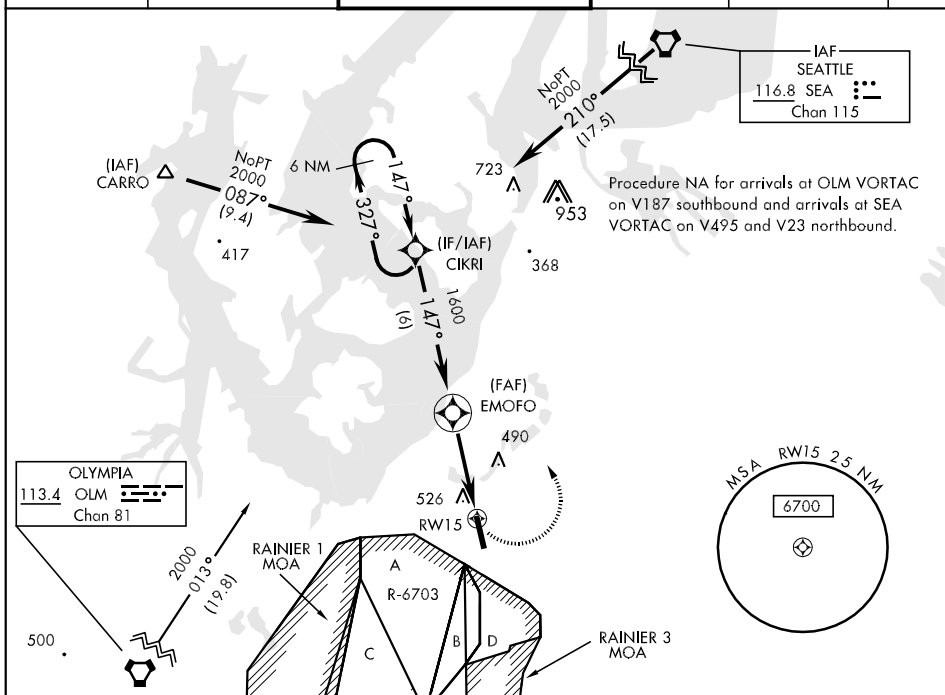
SEATTLE APP CON
120.1 290.9

GRAY TOWER ★
119.325 (CTAF) 256.8

GND CON
121.9 290.2

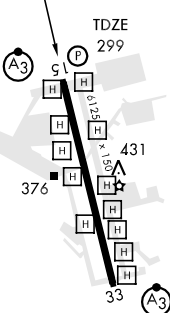
CLNC DEL
121.9 290.2

PAR



NW-1, 08 APR 2010 to 06 MAY 2010

ELEV 300

147°
to RW15

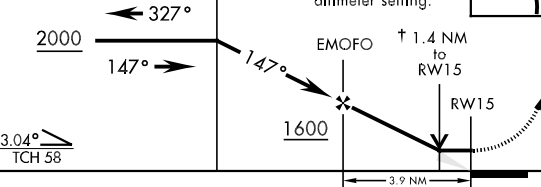
HIRL Rwy 15-33

VGSI and descent angles
 not coincident. CIKRI

† VDP NA with
 McChord AFB
 altimeter setting.

2000

CIKRI



CATEGORY	A	B	C	D
LNAV MDA	780/24 481 (500-½)	780/40 481 (500-¾)	780/50 481 (500-1)	780/50 481 (500-1)
CIRCLING *	780-1 480 (500-1)	780-1½ 480 (500-1½)	860-2 560 (600-2)	860-2 560 (600-2)
McCHORD AFB ALTIMETER SETTING MINIMUMS				
LNAV MDA	800/24 501 (600-½)	800/50 501 (600-1)	800-1½ 500 (500-1½)	880-2 580 (600-2)
CIRCLING *	800-1 500 (500-1)	800-1½ 500 (500-1½)	880-2 580 (600-2)	880-2 580 (600-2)

APCH CRS	Rwy Idg	6125
327°	TDZE	300
	Arpt Elev	300

AL-413 [USA]

GRAY AAF (KGRF)



* Circling not authorized W of Rwy 15-33.



MISSED APPROACH: Climb to 2000
direct to GRF NDB and hold.

DME/DME RNP-0.3 NA

ATIS
124.65 306.2

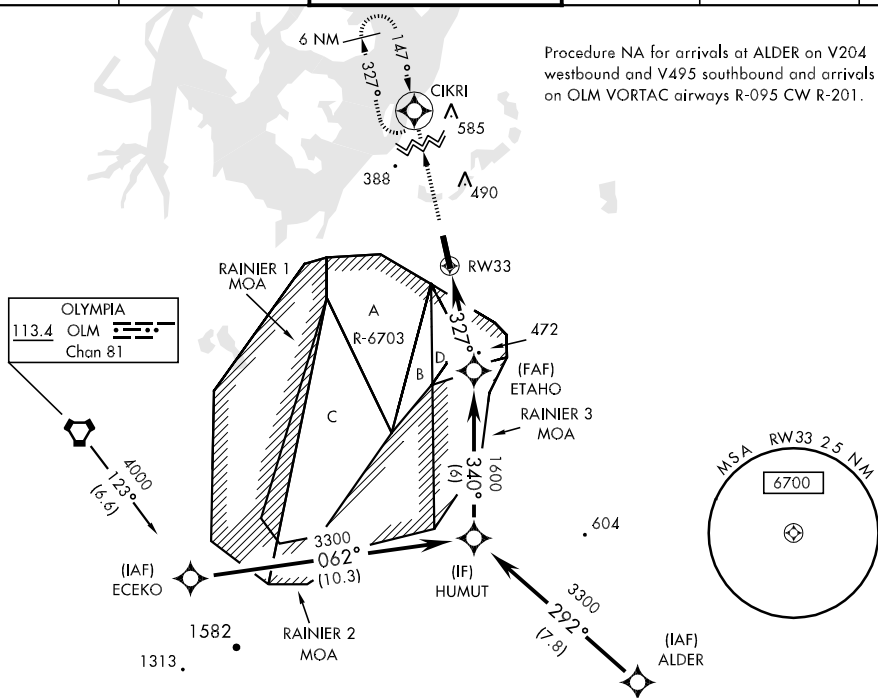
SEATTLE APP CON
120.1 290.9

GRAY TOWER ★
119.325 (CTAF) 256.8

GND CON
121.9 290.2

CLNC DEL
121.9 290.2

PAR



2000



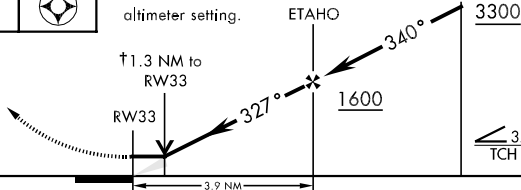
† VDP NA with McChord AFB altimeter setting.

†1.3 NM to

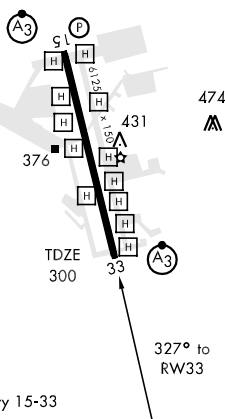
HUMUT

2200

ELEV 300



CATEGORY	A		B		C		D	
INAV MDA	780-1/2 480 (500-1/2)		780-3/4 480 (500-3/4)		780-1 480 (500-1)		780-1 480 (500-1)	
CIRCLING *	780-1 480 (500-1)		780-1 1/2 480 (500-1 1/2)		860-2 560 (600-2)		860-2 560 (600-2)	
McCHORD AFB ALTIMETER SETTING MINIMUMS								
INAV MDA	800-1/2 500 (500-1/2)		800-3/4 500 (500-3/4)		800-1 500 (500-1)		800-1 500 (500-1)	
CIRCLING *	800-1 500 (500-1)		800-1 1/2 500 (500-1 1/2)		880-2 580 (600-2)		880-2 580 (600-2)	



FORT LEWIS, WASHINGTON

47°05'N-122°35'W

GRAY AAF (KGRF)

Orig 10098

BNLAV / OBCS / BNLAV 20

NDB FHR
284

APP CRS
330°

Rwy Idg	3402
TDZE	107
Apt Elev	113

NDB RWY 34
FRIDAY HARBOR (FHR)

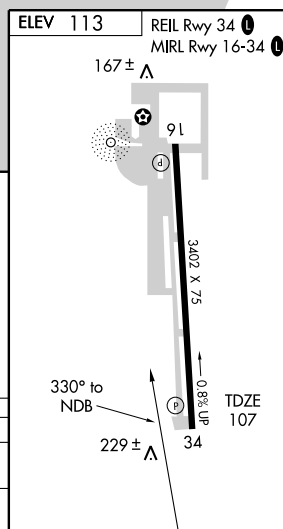
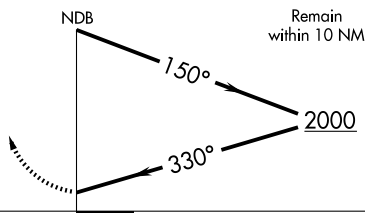
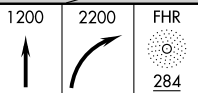
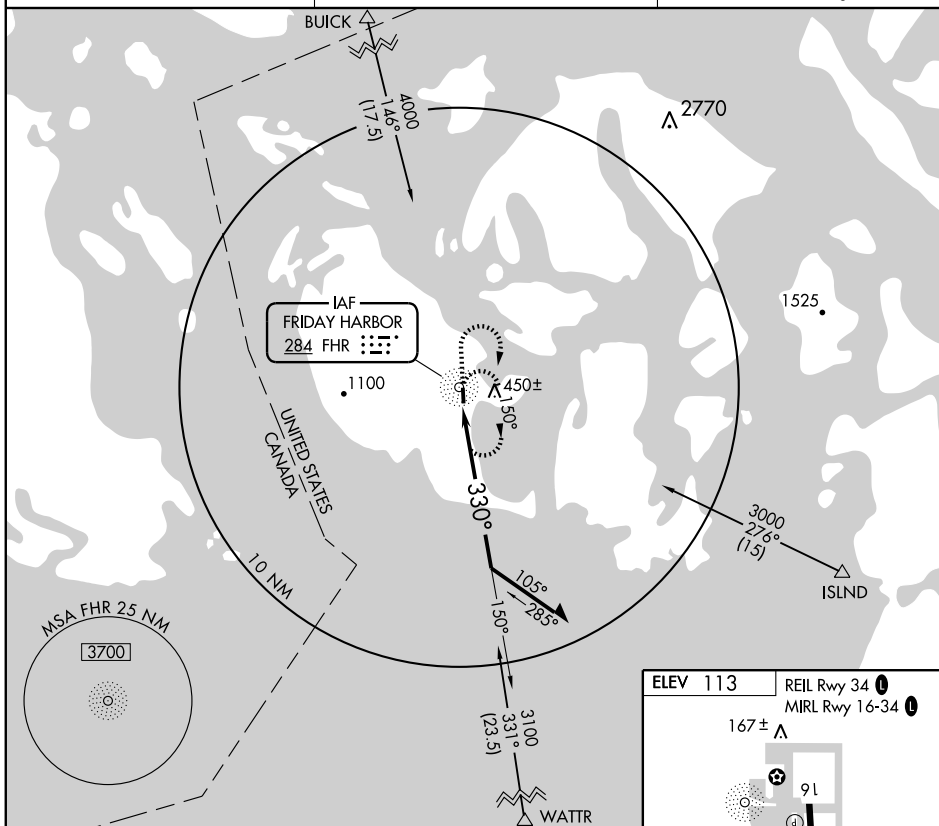


Circling not authorized west of Rwy 16-34.

MISSED APPROACH: Climb to 1200 then climbing right turn to 2200 direct to FHR NDB and hold.

ASOS
135.675

WHIDBEY APP CON
118.2 285.65

CTAF
128.25 

NW-1. 08 APR 2010 to 06 MAY 2010

CATEGORY	A	B	C	D
S-34	860-1 753 (800-1)	860-1¼ 753 (800-1¼)	860-2¼ 753 (800-2¼)	NA
CIRCLING	860-1 747 (800-1)	860-1¼ 747 (800-1¼)	860-2¼ 747 (800-2¼)	NA

WAAS CH 40024 W34A	APP CRS 337°	Rwy Idg 3402 TDZE 108 Apt Elev 113
--	------------------------	---

RNAV (GPS) RWY 34

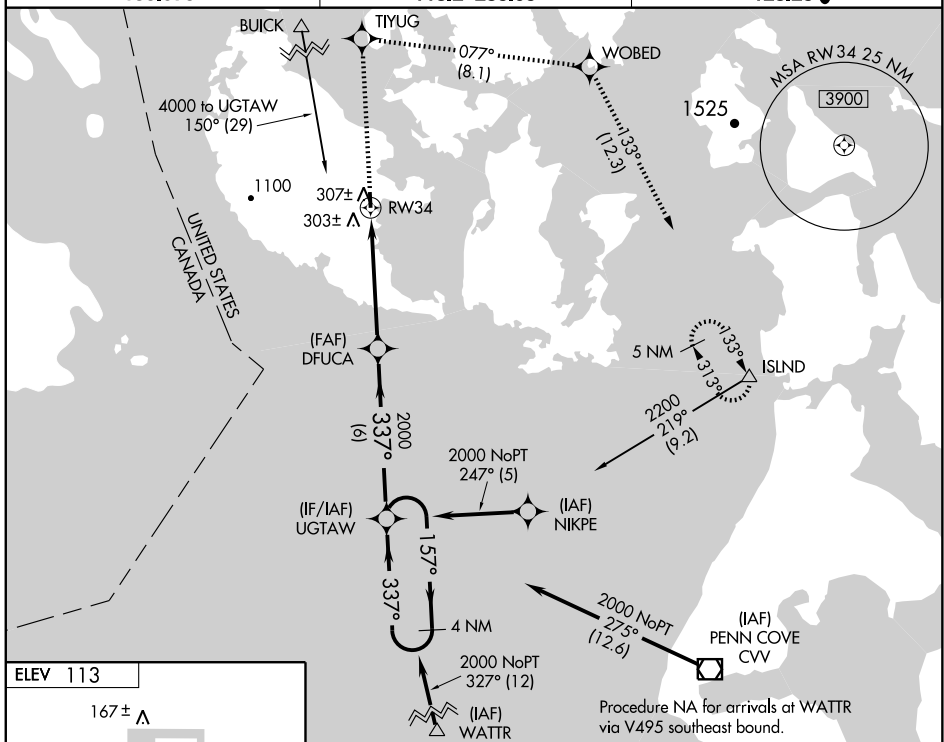
FRIDAY HARBOR (FHR)

T DME/DME RNP-0.3 NA. Circling not authorized west of Rwy 16-34.
Baro-VNAV NA below -30°C (-22°F).
When VGSI inoperative, procedure NA at night.

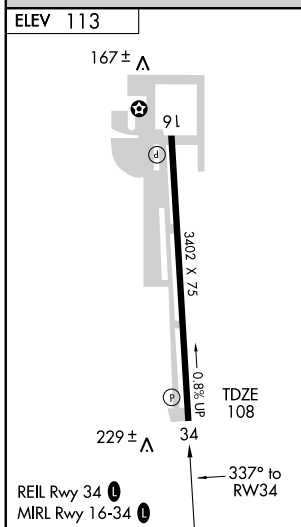
MISSED APPROACH: Climb to 5000 direct TIYUG and via 077° track to WOBE and via 133° track to ISLND and hold.

ASOS
135,675

WHIDBEY APP CON
118.2 285.65

CTAF
128.25 L

NW-1. 08 APR 2010 to 06 MAY 2010



5000 ↑	TYUG ✱	077° TRK	WOBD ✱	133° TRK	ISLND △	UGTAW 4 NM Holding Pattern
CATEGORY	A	B	C	D		
LPV DA	500-1¼	392 (400-1¼)		NA		
RNAV DA	580-1½	472 (500-1½)		NA		
RNAV MDA	640-1	532 (600-1)	640-1½ 532 (600-1½)	NA		
CIRCLING	780-1½	667 (700-1½)	800-2 687 (700-2)	NA		

LOC/DME I-HQM	APP CRS	Rwy Idg	5000
108.7	241°	TDZE	16
Chan 24		Apt Elev	18

ILS or LOC/DME RWY 24

HOQUIAM/ BOWERMAN (HQM)

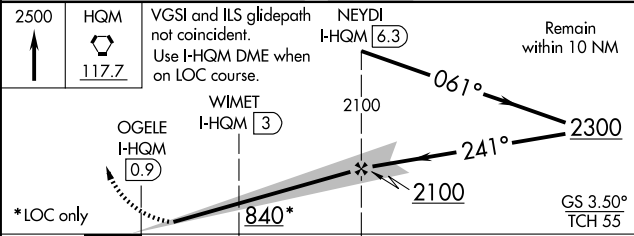
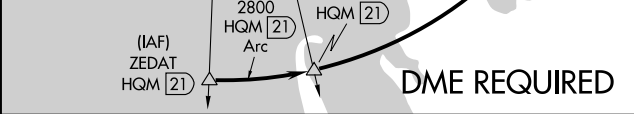
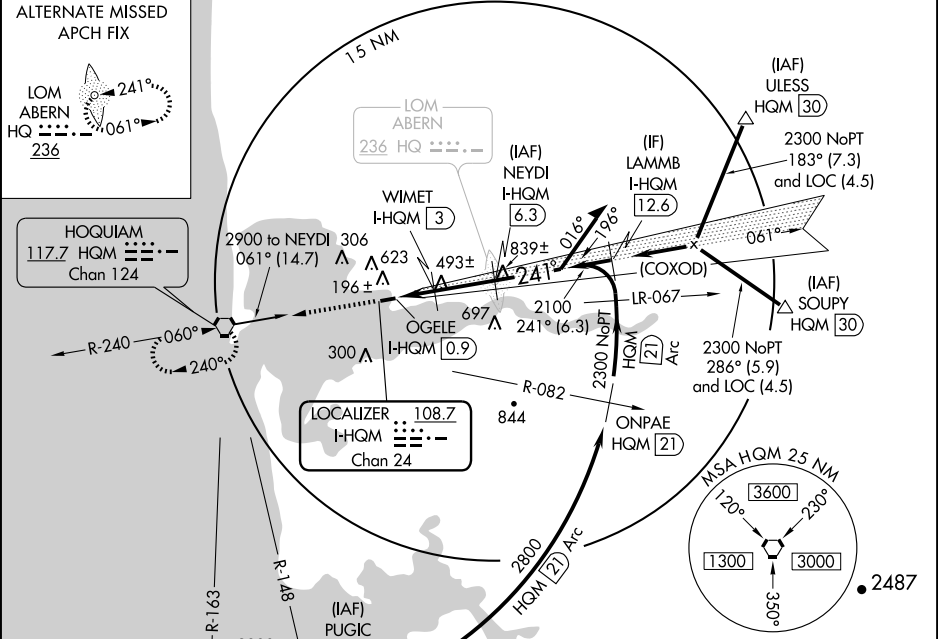
For inoperative MALS, increase S-LOC Cats A and B visibility to 1 mile.
Circling NA northwest of Rwy 6-24.
Inoperative table does not apply to S-ILS Rwy 24.
When local altimeter setting not received, procedure NA.

MALSR

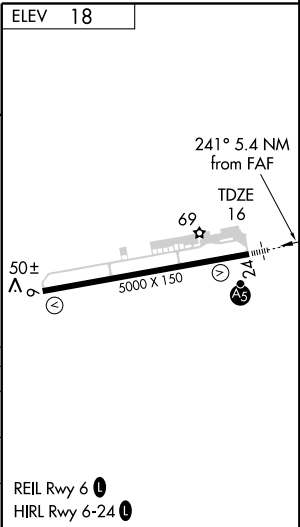


MISSED APPROACH: Climb to 2500
direct HQM VORTAC and hold.

ASOS	SEATTLE CENTER	UNICOM
135.775	128.3 269.0	122.7 (CTAF) 0



CATEGORY	A	B	C	D
S-ILS 24	216-¾ 200 (200-¾)		286-1 270 (300-1)	NA
S-LOC 24	580-¾ 564 (600-¾)		580-1 564 (600-1)	NA
CIRCLING	580-1 562 (600-1)		580-1½ 562 (600-1½)	NA

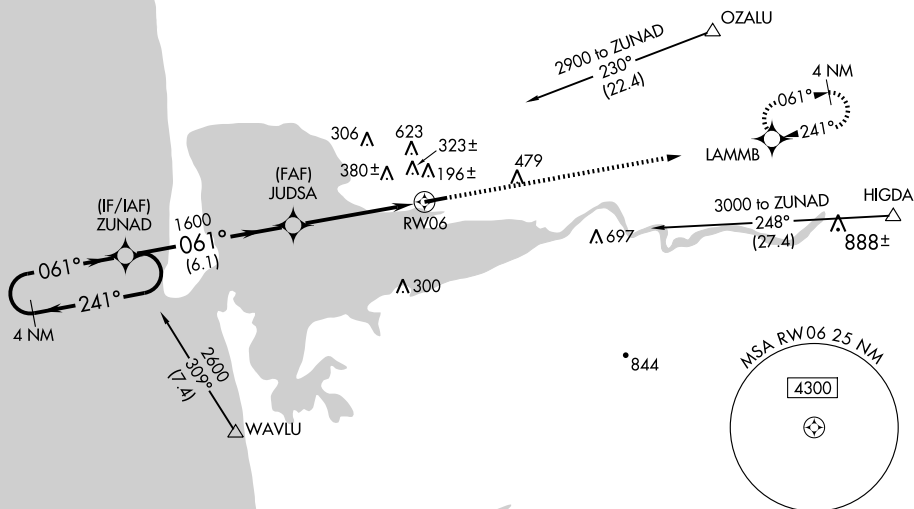


RNAV (GPS) RWY 6

HOQUIAM/BOWERMAN (HQM)

MISSED APPROACH: Climb to 2900 direct LAMMB and hold.

UNICOM
122.7 (CTAF) **L**



NW-1. 08 APR 2010 to 06 MAY 2010

ELEV 18

4 NM
Holding Pattern

ZUNAD

2900

LAMMB

$$\underline{2600} \quad \xleftarrow{2} \quad \underline{}$$

JUDSA

RWC

GS 3.00°
TCH 52

5400

RWC

TD

061° to
RW06

CATEGORY		A	B	C	D
LPV	DA	308-1 290 (300-1)			
LNAV/ VNAV	DA	758-2½ 740 (800-2½)			
LNAV	MDA	620-1 602 (700-1)	620-1¾ 602 (700-1¾)	620-2 602 (700-2)	
CIRCLING		620-1 602 (700-1)	620-1¾ 602 (700-1¾)	620-2 602 (700-2)	

REIL Rwy 6 **L**
H|RL Rwy 6-24 **L**

RNAV (GPS) RWY 24

MALSR
A5

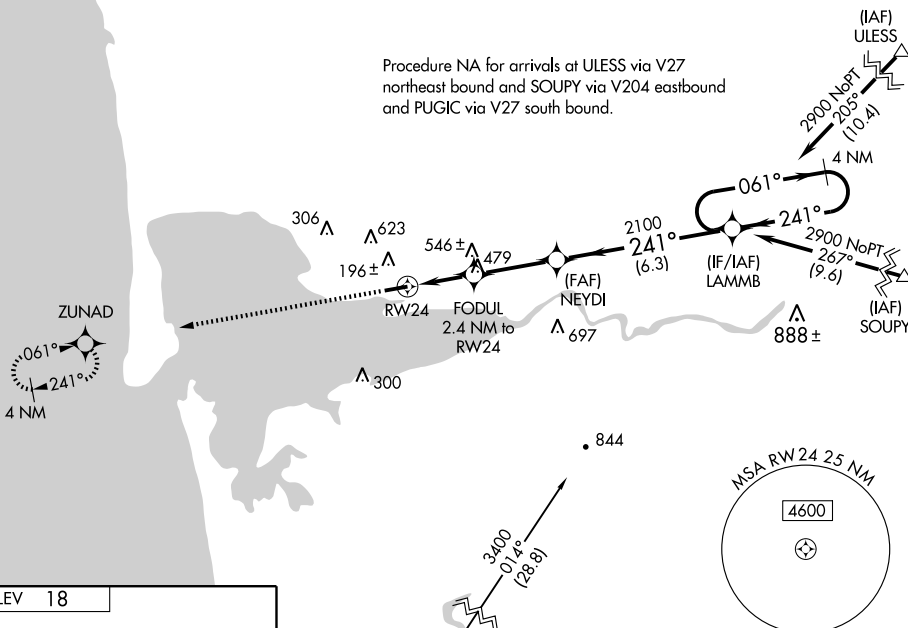
MISSED APPROACH: Climb to 2600
direct ZUNAD and hold.

ASOS
135,775

SEATTLE CENTER
128.3 269.0

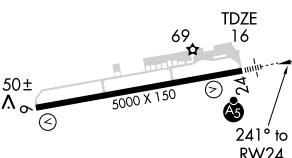
UNICOM
122.7 (CTAF)

Procedure NA for arrivals at ULESS via V27
northeast bound and SOUPY via V204 eastbound
and PUGIC via V27 south bound.



NW-1. 08 APR 2010 to 06 MAY 2010

ELEV 18



2600
↑
ZUNAD

VGSI and RNAV glidepath not coincident.

LAMMB

4 NM Holding Pattern

061° → 2900
← 241°

NEYDI

FODUL
2.4 NM to RW24

241°

2100

960

RW24

2.4 NM 3 NM 6.2 NM

GS 3.50°
TCH 55

CATEGORY		A		B		C		D	
LPV	DA	216-¾ 200 (200-¾)				286-1 270 (300-1)		NA	
INAV/ VNAV	DA	1029-2½ 1013 (1100-2½)							
VNAV	MDA	800-¾ 784 (800-¾)				800-1¾ 784 (800-1¾)		NA	
CIRCLING		800-1 782 (800-1)		800-1¼ 782 (800-1¼)		800-2¼ 782 (800-2¼)		NA	

REIL Rwy 6 **L**
HIRL Rwy 6-24 **L**

⚠

⚠

Circling NA northwest of Rwy 6 and 24.
Visibility reduction by helicopters NA.

MALSR

A5

MISSED APPROACH: Climb to 2500 via HQM VORTAC
R-061 to HQM VORTAC and hold.

ASOS 135.775	SEATTLE CENTER 128.3 269.0	UNICOM 122.7 (CTAF) 1
-----------------	-------------------------------	---------------------------------

Procedure NA for arrivals at OZCIS via V204 eastbound.

ELEV 18

REIL Rwy 6 **1**
HIRL Rwy 6-24 **1**

	2500	HQM		FIVTA
	HQM R-061	117.7		HQM 20
		JURPI	IFAYY	
		HQM 12	HQM 13.9	
			1600	2200
			3.10° TCH 52	
			241°	
			960	
			2.8 NM	1.9 NM
				6.1 NM
				Procedure Turn NA
CATEGORY	A	B	C	D
S-24	900-3/4	884 (900-3/4)	900-2 1/4 884 (900-2 1/4)	900-2 1/2 884 (900-2 1/2)
CIRCLING	900-1 1/4	882 (900-1 1/4)	900-2 3/4 882 (900-2 3/4)	900-3 882 (900-3)

NW-1. 08 APR 2010 to 06 MAY 2010

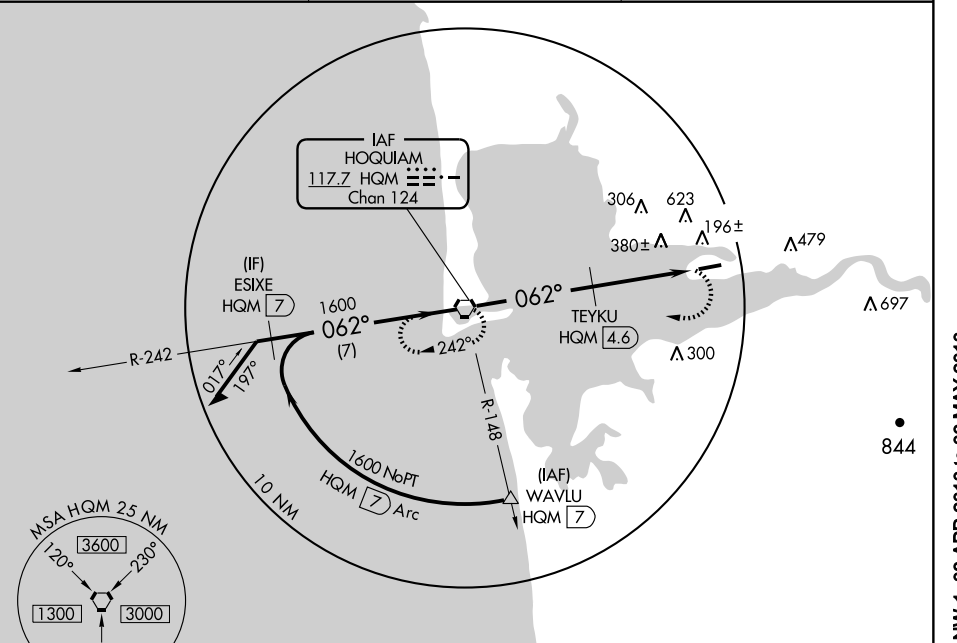
▼

▲

Visibility reduction by helicopters NA.
Circling NA northwest of Rwy 6 and 24.

MISSED APPROACH: Climbing right turn to 2500 direct HQM
VORTAC and hold.

ASOS 135.775	SEATTLE CENTER 128.3 269.0	UNICOM 122.7 (CTAF) 1
-----------------	-------------------------------	--------------------------



Remain within 10 NM

VORTAC

2500

HQM

117.7

TEYKU HQM 4.6

HQM 8.5

1600

062°

242°

760

4.6 NM

3.9 NM

CATEGORY	A	B	C	D
S-6	760-1 742 (800-1)	760-1¼ 742 (800-1¼)	760-2¼ 742 (800-2¼)	760-2½ 742 (800-2½)
CIRCLING	760-1 742 (800-1)	760-1¼ 742 (800-1¼)	760-2¼ 742 (800-2¼)	760-2½ 742 (800-2½)
TEYKU FIX MINIMUMS				
S-6	640-1	622 (700-1)	640-1¾ 622 (700-1¾)	640-2 622 (700-2)
CIRCLING	640-1	622 (700-1)	640-1¾ 622 (700-1¾)	640-2 622 (700-2)

ELEV 18

TDZE 18

50±

69

5000 X 150

062° 8.5 NM from FAF

REIL Rwy 6 1

HIRL Rwy 6-24 1

FAF to MAP 8.5 NM

Knots	60	90	120	150	180
Min:Sec	8:30	5:40	4:15	3:24	2:50

NW-1, 08 APR 2010 to 06 MAY 2010

⚠

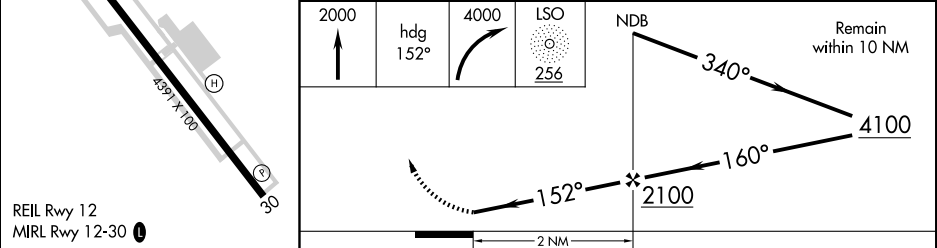
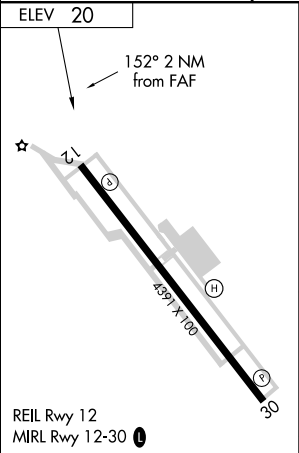
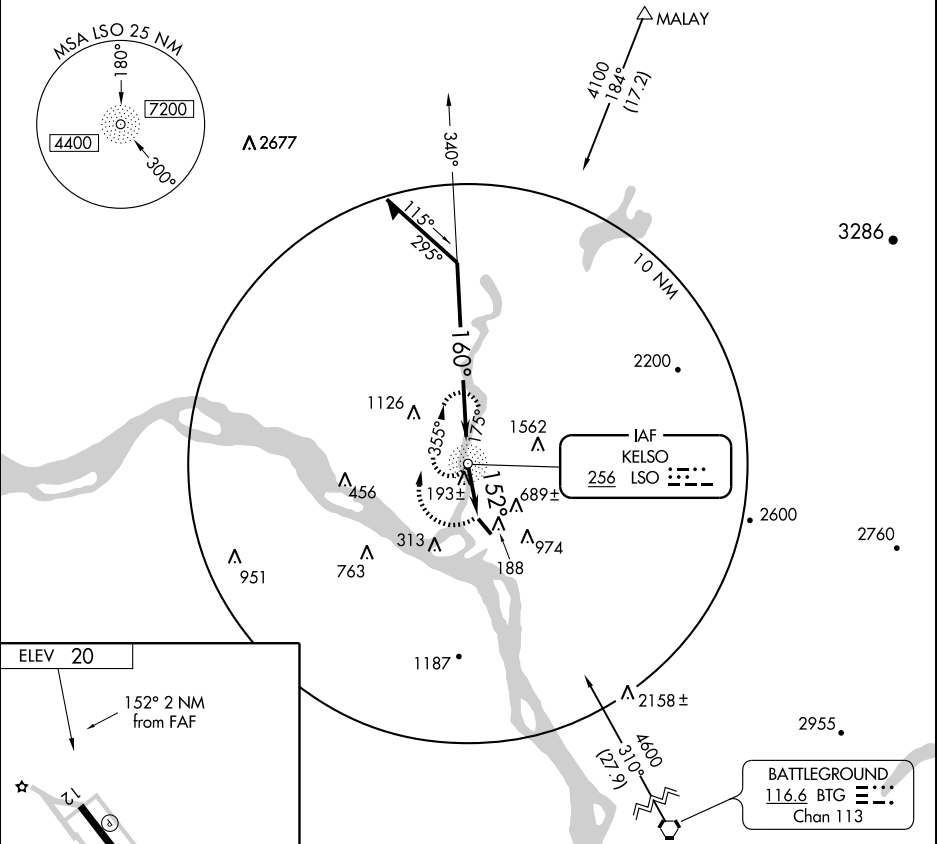
NA

Circling NA NE of Rwy 12-30.

When local altimeter setting not received, use Scappoose altimeter setting and increase all MDA 80 feet.

MISSED APPROACH: Climb to 2000 via heading 152° then climbing right turn to 4000 direct LSO NDB and hold, continue climb-in-hold to 4000.

AWOS-3 135.075	SEATTLE CENTER 124.2 317.6	UNICOM 122.8 (CTAF) 0
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FAF to MAP 2 NM						CATEGORY	A	B	C	D
Knots	60	90	120	150	180	CIRCLING	1300-1¼ 1280 (1300-1¼)	1300-1½ 1280 (1300-1½)	NA	
Min:Sec	2:00	1:20	1:00	0:48	0:40					

APP CRS	Rwy Idg	4391
123°	TDZE	20
	Apt Elev	20

RNAV (GPS) RWY 12

SOUTHWEST WASHINGTON RGNL (KLS)

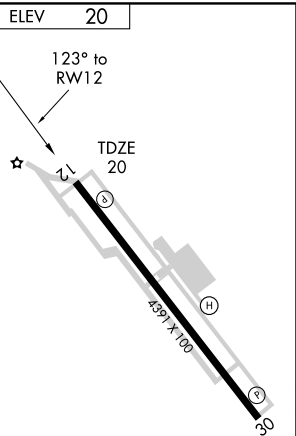
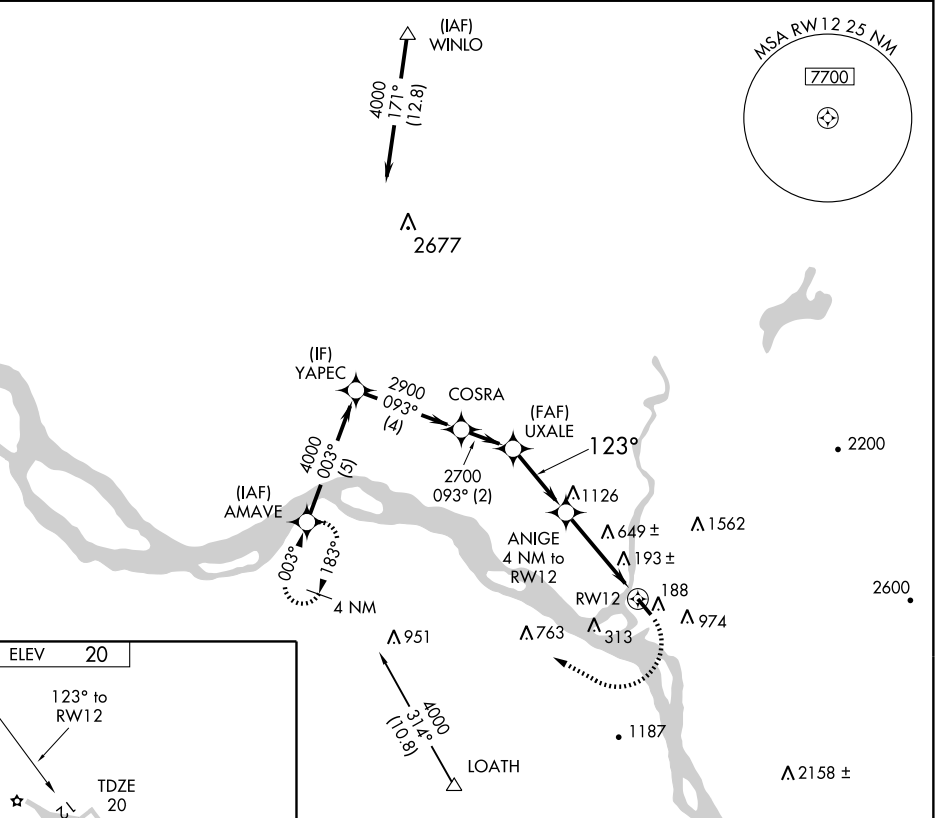
▼



▲

Circling NA northeast of Rwy 12-30. DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. When local altimeter setting not received, use Scappoose altimeter setting and increase all MDA 60 feet and all Cat A visibility ¼ mile.


MISSED APPROACH: Climbing right turn to 4000 direct AMAVE and hold, continue climb-in-hold to 4000.

AWOS-3 135.075	SEATTLE CENTER 124.2 317.6	UNICOM 122.8 (CTAF) 
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Procedure Turn NA	VGSIs and descent angles not coincident.					
	YAPEC	COSRA	UXALE	ANIGE 4 NM to RW12		
	4000	2900	2700	1580		
	093°		123°			
	4 NM	2 NM	3 NM	4 NM		
CATEGORY	A	B	C	D		
LNAV MDA	900-1 880 (900-1)	900-1¼ 880 (900-1¼)		NA		
CIRCLING	900-1 880 (900-1)	900-1¼ 880 (900-1¼)		NA		

REIL Rwy 12

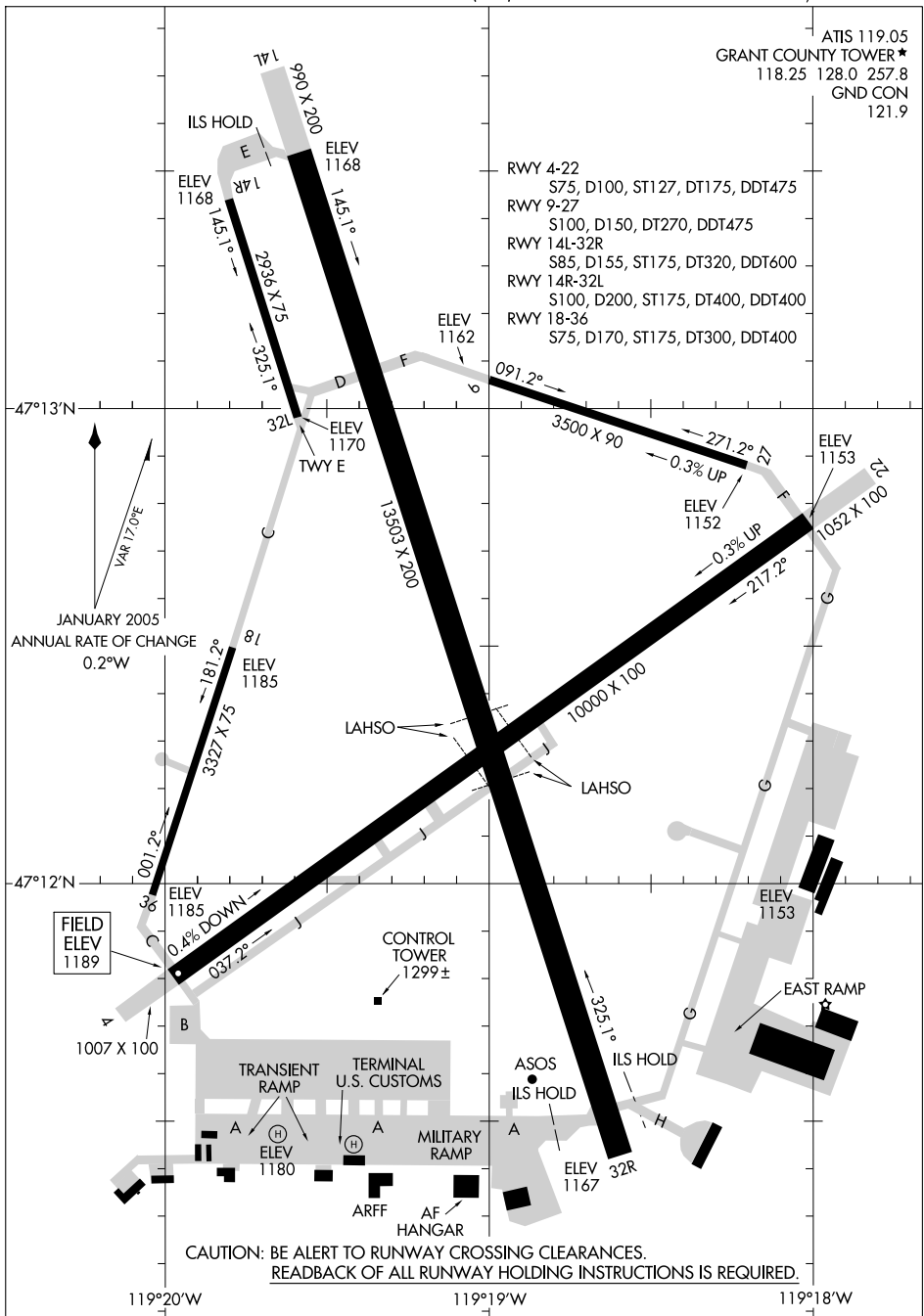
MIRL Rwy 12-30 

AIRPORT DIAGRAM

AL-961 (FAA)

MOSES LAKE/GRANT COUNTY INTL (MWH)

MOSES LAKE, WASHINGTON



NW-1, 08 APR 2010 to 06 MAY 2010

ILS or LOC RWY 32R
MOSES LAKE/GRANT COUNTY INTL (MWH)

MALSR
A5

MISSED APPROACH: Climb to 1800, then climbing right turn to 4000 via MWH R-054 to BATUM INT/MWH 9.8 DME and hold, continue climb-in-hold to 4000.

EPHRATA
112.6 EPH :...:
Chan 73

A 2416

ADP OR DME
REQUIRED

WIPES

3900 183°
(19.1)

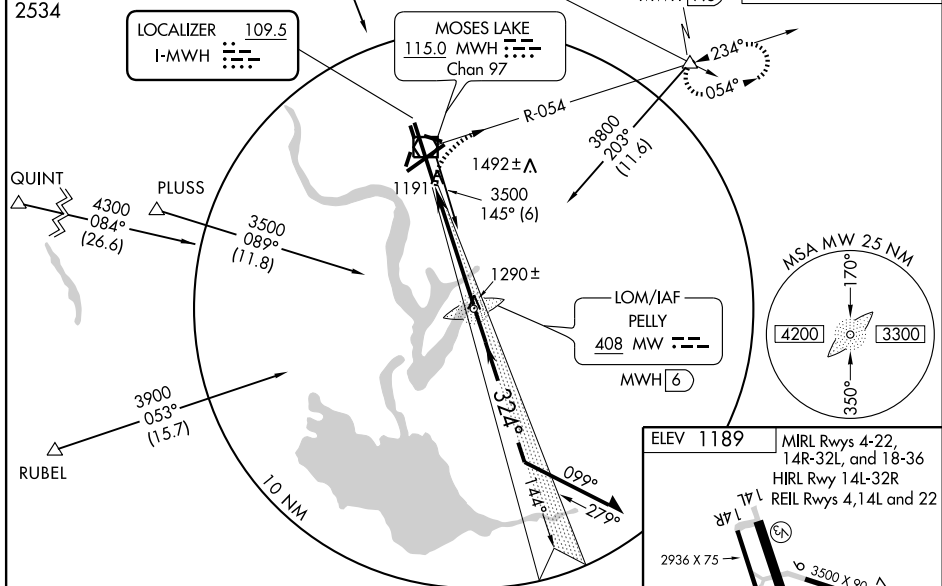
BATUM
MWH 9.8

ALTERNATE
MISSED APCH FIX

R-315

EPHRATA
EPH :...:
112.6
Chan 73

435°
315°



FAF to MAP 4.7 NM					
Knots	60	90	120	150	180
Min:Sec	4:42	3:08	2:21	1:53	1:34

MOSES THREE DEPARTURE

SL-961 (FAA)

MOSES LAKE/GRANT COUNTY INTL (MWH)

MOSES LAKE, WASHINGTON

ATIS 119.05

GND CON

121.9

GRANT COUNTY TOWER ★

118.25 (CTAF) 128.0 257.8

GRANT COUNTY DEP CON ★

126.4 379.95

WENATCHEE
111.0 EAT
Chan 47
N47°23.98' - W120°12.65'

L-13



EPHRATA
112.6 EPH
Chan 73
N47°22.68' - W119°25.44'

L-13, H-1



SPOKANE
115.5 GEG
Chan 102
N47°33.90' - W117°37.61'

L-13, H-1

ELLENSBURG
117.9 ELN
Chan 126
N47°01.46' - W120°27.51'

L-13, H-1

MOSES LAKE
115.0 MWH
Chan 97
N47°12.65' - W119°19.01'

L-13, H-1

YAKIMA
116.0 YKM
Chan 107
N46°34.22' - W120°26.68'

L-13, H-1

PASCO
108.4 PSC
Chan 21
N46°15.78' - W119°06.94'

L-13

WALLA WALLA
116.4 ALW
Chan 111
N46°05.22' - W118°17.55'

L-13



NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

ALL RUNWAYS: Fly runway heading, or ATC assigned heading, for vector to assigned route/fix. Maintain 5000' or ATC assigned altitude. Expect clearance to filed altitude 5 minutes after departure.

LOST COMMUNICATIONS: If no transmissions received for 1 minute after departure, maintain runway heading, or ATC assigned heading to 6000', then climbing right turn to filed altitude, direct MWH VOR/DME, then via assigned fix/route.

FAF to MAP 4.7 NM					
Knots	60	90	120	150	180
Min:Sec	4:42	3:08	2:21	1:53	1:34

WAAS CH 42809 W04A	APP CRS 036°	Rwy ldg TDZE 10000 1189 Apt Elev 1189
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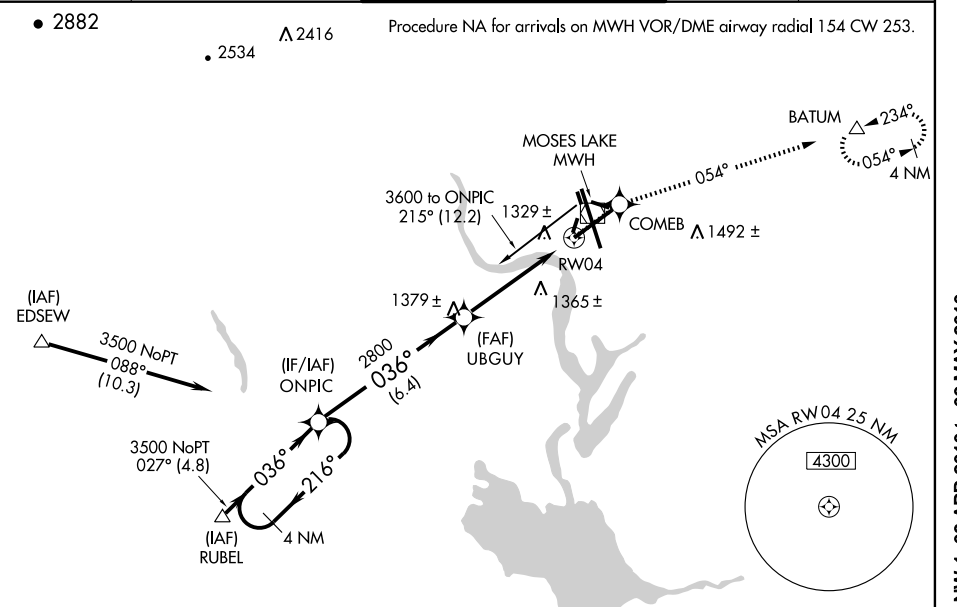
▼

▲

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C (2°F) or above 46°C (114°F). DME/DME RNP-0.3 NA. When local altimeter setting not received, use Ephrata altimeter setting and increase all DA/MDA 40 feet and increase LPV all Cats and LNAV/VNAV all Cats visibility ¼ mile. Baro-VNAV and VDP NA when using Ephrata altimeter setting.

MISSED APPROACH: Climb to 4000 direct COMEB and via 054° track to BATUM and hold, continue climb-in-hold 4000.

ATIS 119.05	GRANT COUNTY APP CON * 126.4 379.95	GRANT COUNTY TOWER * 118.25 (CTAF) 128.0 257.8	GND CON 121.9	UNICOM 122.95
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ELEV 1189

Diagram details: 2936 X 75, 3327 X 75, 3500 X 90, 1303 X 200, 10000 X 100, 0.3% UP, 0.4% DOWN, 0.3% UP, 1299 ±, 1281, 1301 ±, 32R, 036° to RW04, TDZE 1189, 17L, 14R, 32L, 32R, 17L, 14R, 32L, 32R.

4NM Holding Pattern	ONPIC	* LNAV only	4000	COMEB	054° track	BATUM
3500	← 216°	036°	2800	1.2 NM RW04		
GS 3.00°						
TCH 50						
	6.4 NM	3.6 NM	1.2 NM			
CATEGORY	A	B	C	D		
LPV DA		1439-¾	250 (300-¾)			
LNAV/VNAV DA		1636-1½	447 (500-1½)			
LNAV MDA	1620-1	431 (500-1)	1620-1¼ 431 (500-1¼)	1620-1½ 431 (500-1½)		
CIRCLING	1660-1	471 (500-1)	1660-1½ 471 (500-1½)	1740-2 551 (600-2)		

REIL Rwy 4, 14L and 22

HIRL Rwy 14L-32R

MRL Rwy 4-22, 14R-32L, and 18-36

WAAS CH 90509 W14A	APP CRS 144°	Rwy Idg 13503 TDZE 1169 Apt Elev 1189
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RNAV (GPS) RWY 14L

MOSES LAKE/ GRANT COUNTY INTL (MWH)



For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C (2°F) or above 46°C (114°F). DME/DME RNP-0.3 NA. Baro-VNAV and VDP NA when using Ephrata altimeter setting. When local altimeter setting not received, use Ephrata altimeter setting and increase all DA/MDA 40 feet and increase LPV all CATs and LNAV/VNAV all CATs visibility ¼ mile.

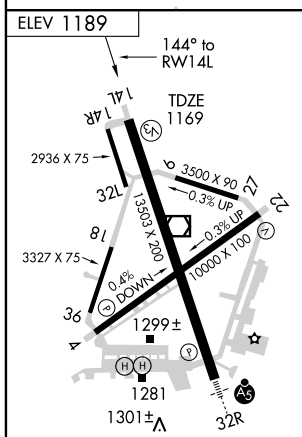
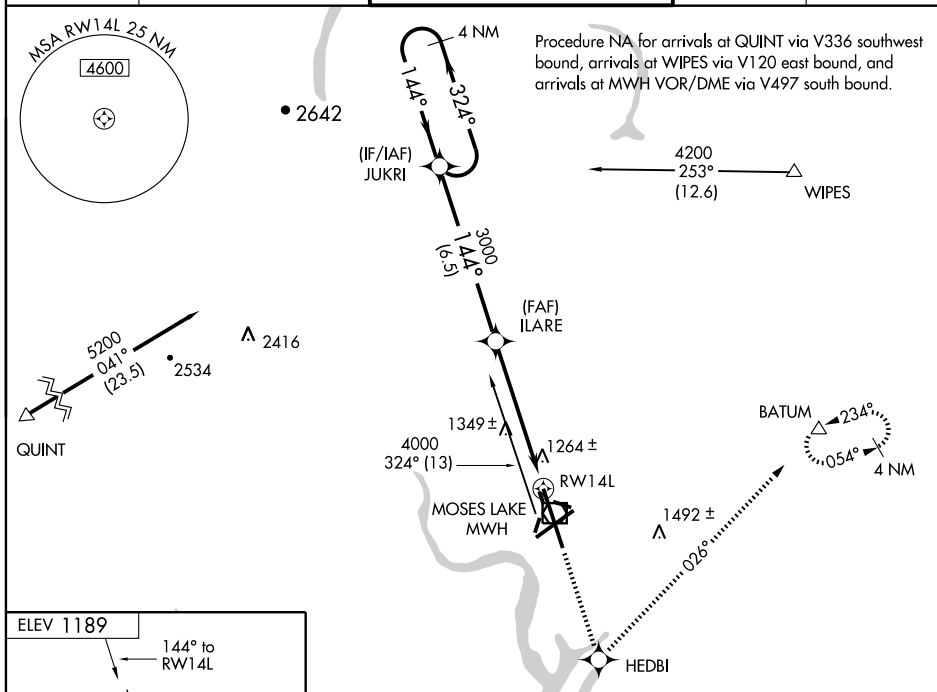
MISSED APPROACH: Climb to 4000
direct HEDBI and via 026° track to
BATUM and hold, continue climb-in-hold
4000.

ATIS
119.05

GRANT COUNTY APP CON ★
126.4 379.95

GRANT COUNTY TOWER ★
118.25 (CTAF) **L** 128.0 257.8

GND CON
121.9

UNICOM
122.95

CATEGORY	A	B	C	D
LPV DA	1419- ³ / ₄	250 (300- ³ / ₄)		
LNAV/VNAV DA	1622-1 ¹ / ₂	453 (500-1 ¹ / ₂)		
LNAV MDA	1600-1 431 (500-1)	1600-1 ¹ / ₄ 431 (500-1 ¹ / ₄)	1600-1 ¹ / ₂ 431 (500-1 ¹ / ₂)	
CIRCLING	1660-1 471 (500-1)	1660-1 ¹ / ₂ 471 (500-1 ¹ / ₂)	1740-2 551 (600-2)	

REIL Rwys 4, 14L and 22
HIRL Rwy 14L-32R
MIRL Rwys 4-22, 14R-32L, and 18-36

WAAS CH 70410 W22A	APP CRS 216°	Rwy Idg TDZE Apt Elev	10000 1166 1189
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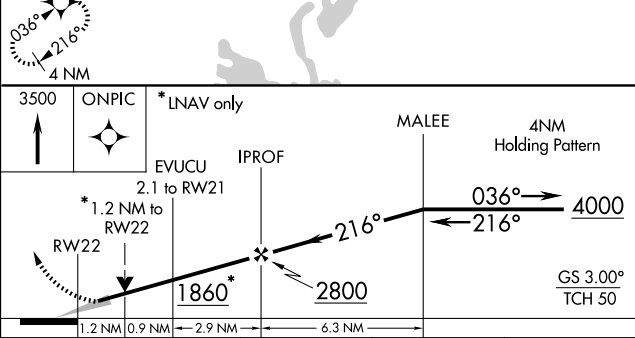
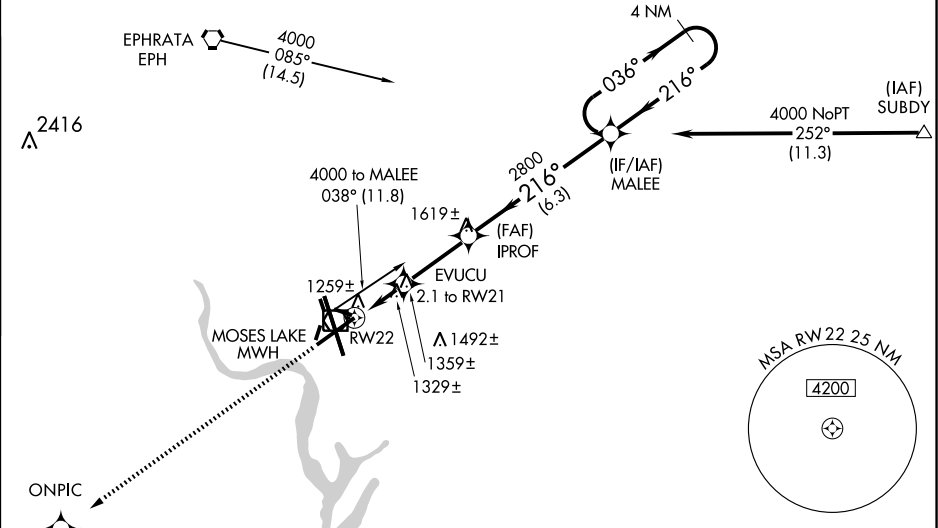
RNAV (GPS) RWY 22
MOSES LAKE/ GRANT COUNTY INTL (MWH)

▼ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C (2°F) or above 46°C (114°F). DME/DME RNP-0.3 NA. Baro-VNAV and VDP NA when using Ephrata altimeter setting. When local altimeter setting not received, use Ephrata altimeter setting and increase all DA/MDA 40 feet and increase LNAV/VNAV all Cats and LNAV Cat D visibility 1/4 mile.

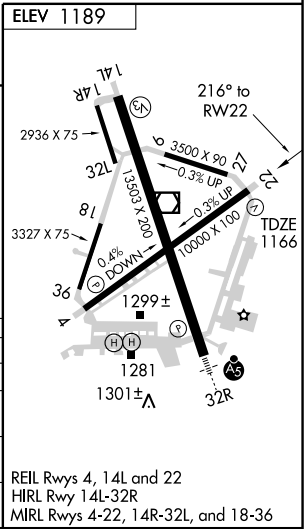
▲ MISSED APPROACH: Climb to 3500 direct ONPIC and hold.

ATIS 119.05	GRANT COUNTY APP CON * 126.4 379.95	GRANT COUNTY TOWER * 118.25 (CTAF) 128.0 257.8	GND CON 121.9	UNICOM 122.95
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Procedure NA for arrivals at EPH VORTAC via V120 westbound.



CATEGORY	A	B	C	D
LPV DA	1416-1	250 (300-1)		
LNAV/VNAV DA	1529-1 1/4	363 (400-1 1/4)		
LNAV MDA	1580-1 414 (500-1)	1580-1 1/4 414 (500-1 1/4)		
CIRCLING	1660-1 471 (500-1)	1660-1 1/2 471 (500-1 1/2)	1740-2 551 (600-2)	



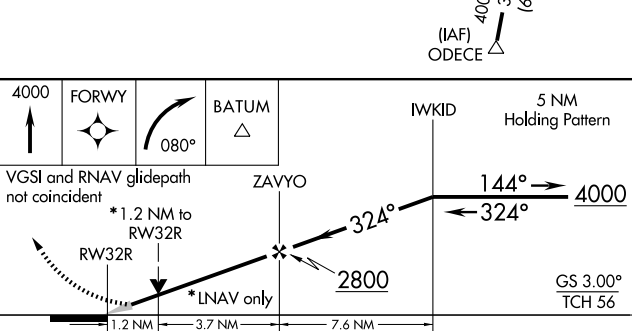
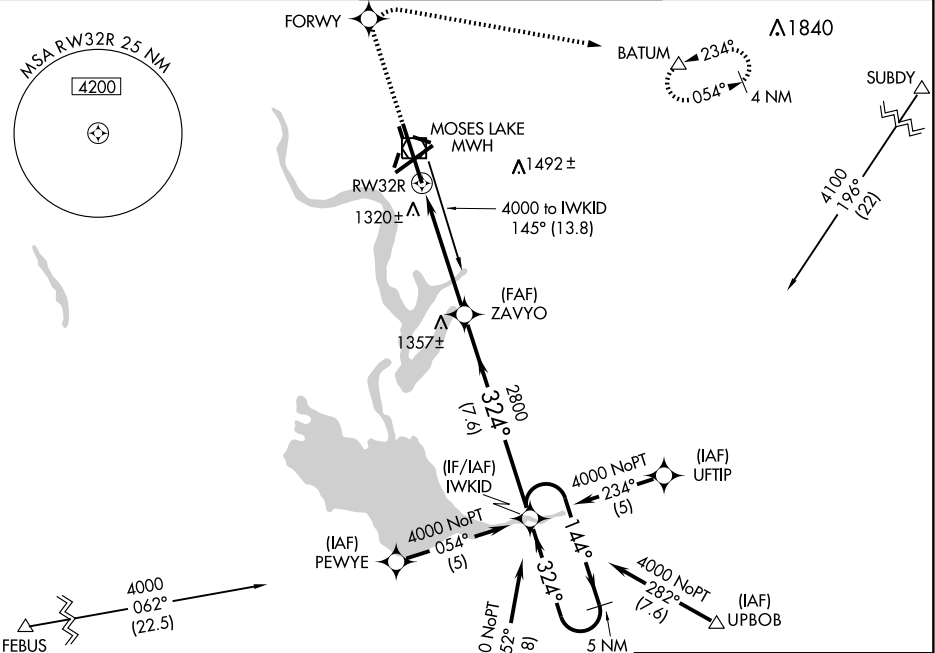
WAAS CH 77799 W32A	APP CRS 324°	Rwy Idg 13503 TDZE 1164 Apt Elev 1185
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RNAV (GPS) RWY 32R

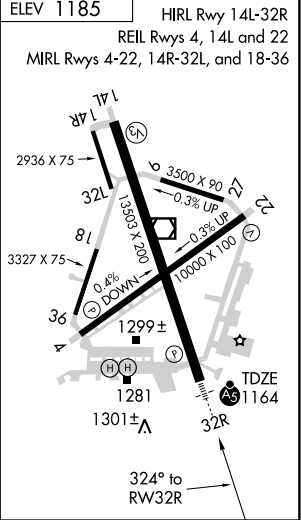
MOSES LAKE/GRANT COUNTY INTL (MWH)

▼ DME/DME RNP-0.3 NA. Baro-VNAV NA below -17°C (1°F). For inoperative MALSR increase LPV all Cats visibility to RVR 4000, and LNAV Cat D visibility to 1½.	MALSR 	MISSED APPROACH: Climb to 4000 direct FORWY and right turn via 080° track to BATUM and hold, continue climb-in-hold to 4000.
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ATIS 119.05	GRANT COUNTY APP CON * 126.4 379.95	GRANT COUNTY TOWER * 118.25 (CTAF) 128.0 257.8	GND CON 121.9	UNICOM 122.95
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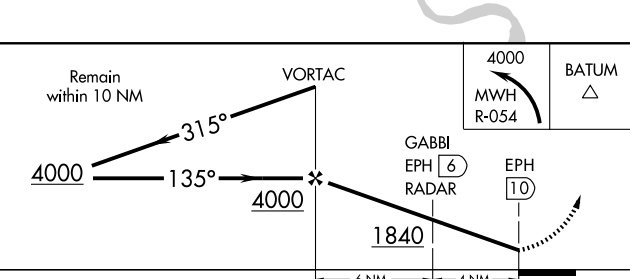
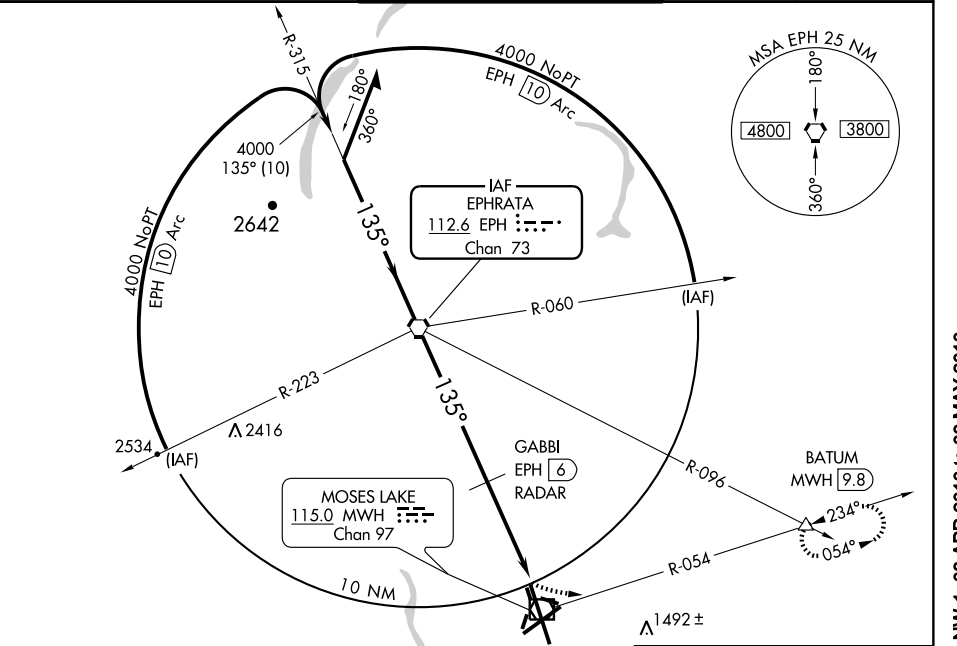
CATEGORY	A	B	C	D
LPV DA		1414/24	250 (300-½)	
LNAV/VNAV DA		1667/60	503 (500-1¼)	
LNAV MDA	1620/24	456 (500-½)	1620/40 456 (500-¾)	1620/50 456 (500-1)
CIRCLING		1680-1¼ 495 (500-1¼)		1740-2 555 (600-2)



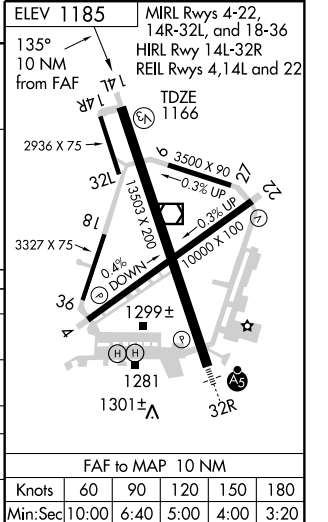
VORTAC EPH	APP CRS	Rwy Idg	13503
112.6	135°	TDZE	1166
Chan 73		Apt Elev	1185

MISSED APPROACH: Climbing left turn to 4000 via MWH R-054 to BATUM Int/MWH 9.8 DME and hold.

ATIS	GRANT COUNTY APP CON *	GRANT COUNTY TOWER *	GND CON	UNICOM
119.05	126.4 379.95	118.25 (CTAF) 128.0 257.8	121.9	122.95



CATEGORY	A	B	C	D
S-14L	1840-1 674 (700-1)		1840-2 674 (700-2)	1840-2 1/4 674 (700-2 1/4)
CIRCLING	1840-1 655 (700-1)		1840-1 3/4 655 (700-1 3/4)	1840-2 655 (700-2)
GABBI DME or RADAR MINIMUMS				
S-14L	1640-1 474 (500-1)		1640-1 1/4 474 (500-1 1/4)	1640-1 1/2 474 (500-1 1/2)
CIRCLING	1680-1 495 (500-1)		1680-1 1/2 495 (500-1 1/2)	1740-2 555 (600-2)

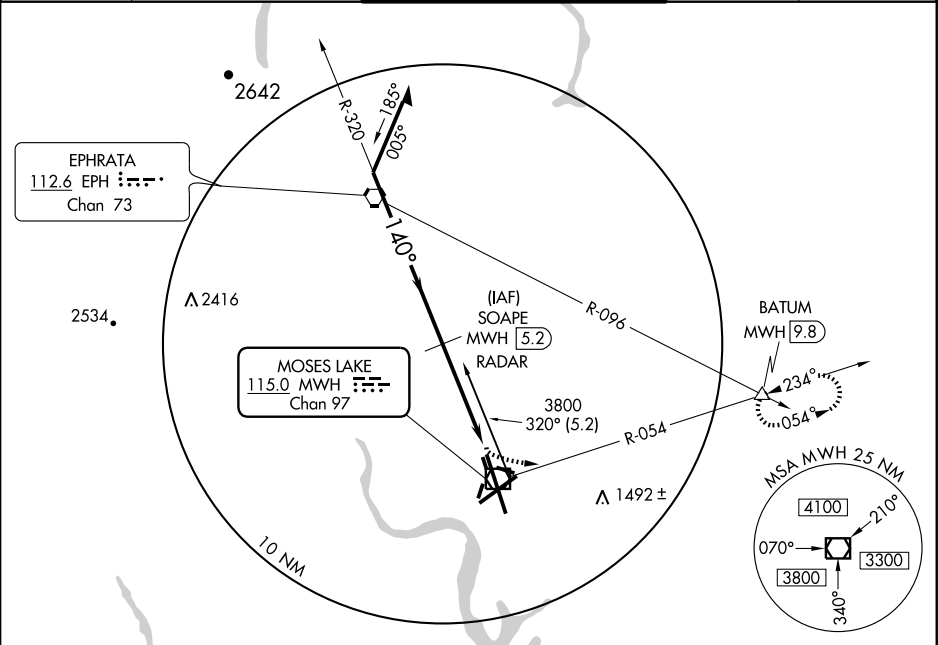


VOR/DME MWH	APP CRS	Rwy Idg	13503
115.0	140°	TDZE	1166
Chan 97		Apt Elev	1185

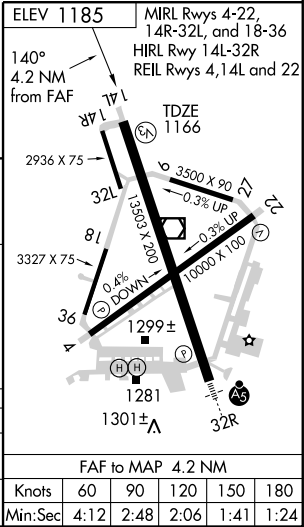
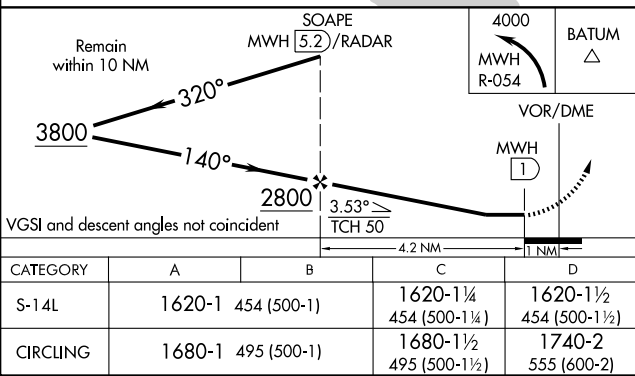
VOR-3 RWY 14L
MOSES LAKE/ GRANT COUNTY INTL (MWH)

<div><div></div><div></div></div>	MISSED APPROACH: Climbing left turn to 4000 via MWH R-054 to BATUM Int/MWH 9.8 DME and hold.
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ATIS 119.05	GRANT COUNTY APP CON * 126.4 379.95	GRANT COUNTY TOWER * 118.25 (CTAF) 128.0 257.8	GND CON 121.9	UNICOM 122.95
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RADAR or DME REQUIRED



VOR/DME MWH <u>115.0</u> Chan 97	APP CRS 025°	Rwy Idg 10000 TDZE 1185 Apt Elev 1185
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VOR RWY 4
MOSES LAKE/GRANT COUNTY INTL (MWH)



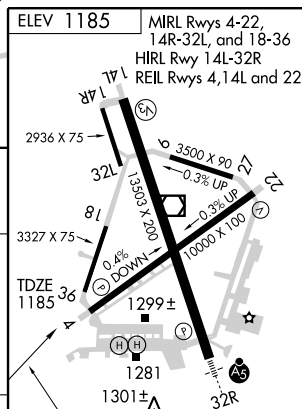
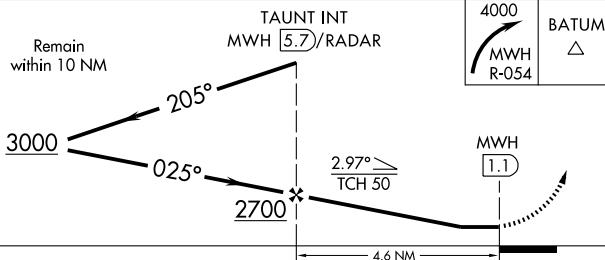
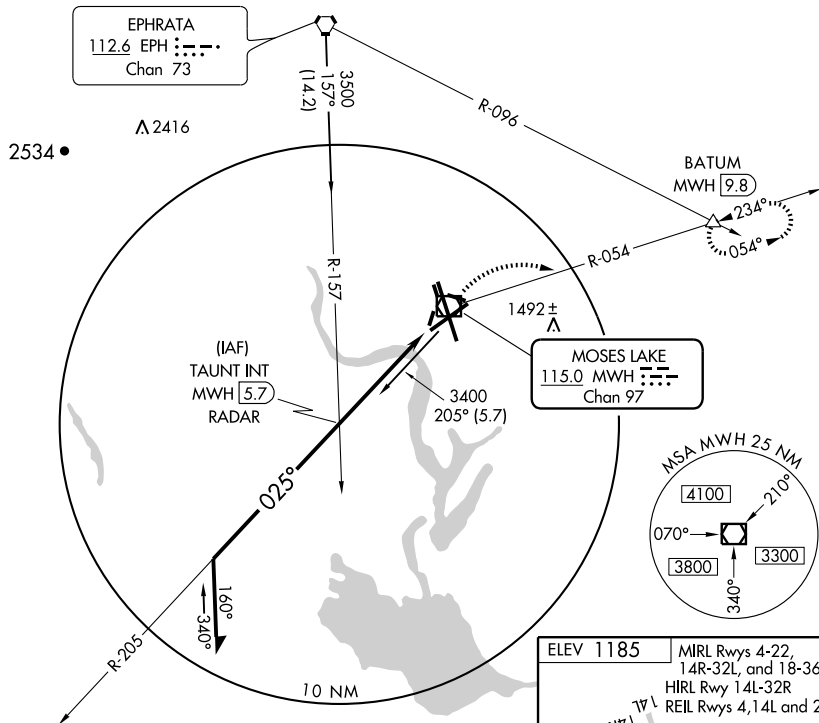
MISSED APPROACH: Climbing right turn to 4000 via MWH R-054 to BATUM Int/MWH 2.8 DME and hold.

ATIS
119.05

GRANT COUNTY APP CON ★
126.4 379.95

GRANT COUNTY TOWER ★
118.25 (CTAF) L 128.0 257.8

GND CON
121.9

UNICOM
122.95

CATEGORY	A	B	C	D
S-4	1620-1 435 (500-1)		1620-1½ 435 (500-1½)	1620-1½ 435 (500-1½)
CIRCLING	1680-1 495 (500-1)		1680-1½ 495 (500-1½)	1740-2 555 (600-2)

025° 4.6 NM from FAF						
FAF to MAP 4.6 NM						
Knots	60	90	120	150	180	
Min:Sec	4:36	3:04	2:18	1:50	1:32	

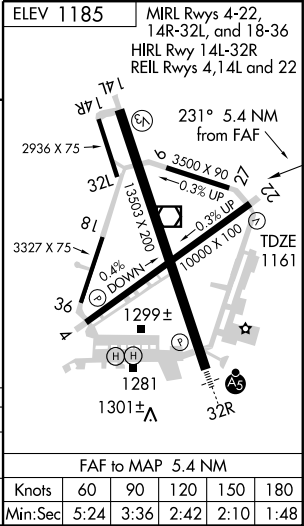
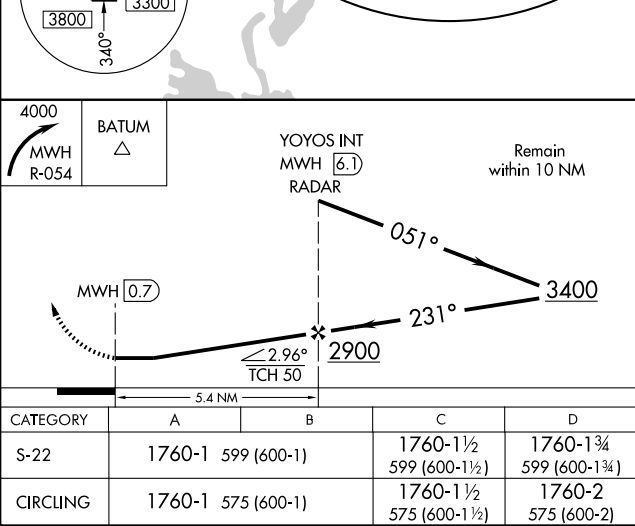
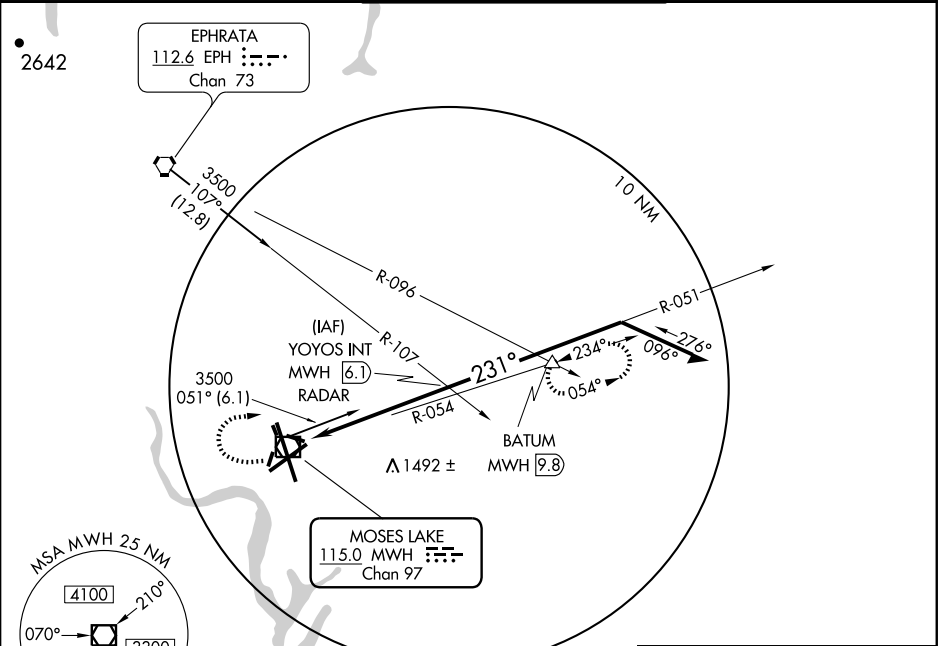
VOR RWY 22

MOSES LAKE/GRANT COUNTY INTL (MWH)

VOR/DME MWH	APP CRS	Rwy Idg	10000
115.0	231°	TDZE	1161
Chan 97		Apt Elev	1185

MISSED APPROACH: Climbing right turn to 4000 via MWH R-054 to BATUM Int/MWH 9.8 DME and hold.

ATIS 119.05	GRANT COUNTY APP CON ★ 126.4 379.95	GRANT COUNTY TOWER ★ 118.25 (CTAF) 128.0 257.8	GND CON 121.9	UNICOM 122.95
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VOR/DME MWH
115.0
Chan 97

APP CRS
325°

Rwy Idg
TDZE
Apt Elev
13503
1164
1185

MOSES LAKE/ GRANT COUNTY INTL (MWH)

ATIS
119.05

GRANT COUNTY APP CON *
126.4 379.95

GRANT COUNTY TOWER *
118.25 (CTAF) 128.0 257.8

GND CON
121.9

UNICOM
122.95

MALSR

MISSED APPROACH: Climbing right turn to 4000 via MWH R-054 to BATUM Int/MWH 9.8 DME and hold.

ATIS 119.05	GRANT COUNTY APP CON * 126.4 379.95	GRANT COUNTY TOWER * 118.25 (CTAF) 128.0 257.8	GND CON 121.9	UNICOM 122.95
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EPHRATA 112.6 EPH Chan 73

MOSES LAKE 115.0 MWH Chan 97

BATUM MWH 9.8

PELLY LOM/IAF 408 MW MWH 6

WIPES 3900 197° (14.8)

R-096

R-054

R-145

10 NM

1.0 NM

MSA MWH 25 NM

4100 210° 070° 3800 3300 340°

ADF or DME REQUIRED

4000
MWH
R-054

BATUM
△

PELLY LOM
MWH 6

Remain within 10 NM

VOR/DME

2600

2800

145°

325°

CATEGORY	A	B	C	D
S-32R	1620/24 456 (500-½)	1620/40 456 (500-¾)	1620/50 456 (500-1)	1620/50 456 (500-1)
CIRCLING	1680-1 495 (500-1)	1680-1 495 (500-1)	1740-2 555 (600-2)	1740-2 555 (600-2)

ELEV 1185

14L 2936 X 75

32L 3327 X 75

36 1299±

1281

1301±

TDZE 1164

325° 4.7 NM from FAF

REIL Rwy 4, 14L and 22

HIRL Rwy 14L-32R

MRL Rwy 4-22, 14R-32L, and 18-36

NW-1. 08 APR 2010 to 06 MAY 2010

AIRPORT DIAGRAM

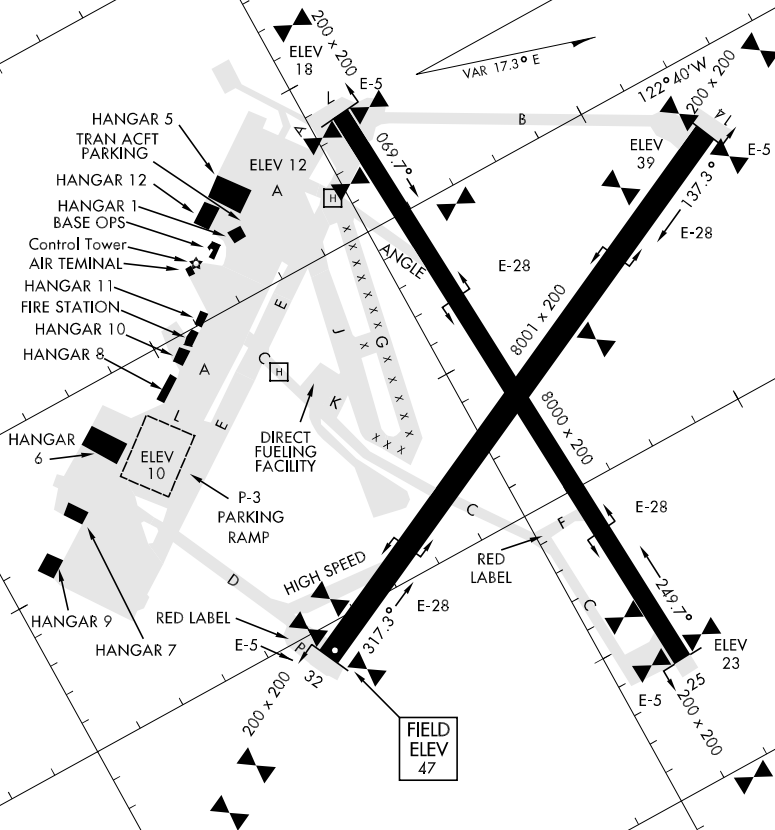
AFD-451 [USN]

OAK HARBOR, WASHINGTON

ATIS 134.15 281.5
WHIDBEY TOWER
127.9 340.2
GND CON
121.75 336.4
CINC DEL
135.1 379.9

FEBRUARY 2010
ANNUAL RATE OF CHANGE
0.2° W

NW-1, 08 APR 2010 to 06 MAY 2010



RWY 7-25
PCN 45 R/B/W/T
RWY 14-32
PCN 73 R/B/W/T

AIRPORT DIAGRAM

OAK HARBOR, WASHINGTON

TACAN NUW Chan 85	APCH CRS 058°	Rwy Idg 8000 TDZE 25 Arpt Elev 47
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JAL-451 [USN]

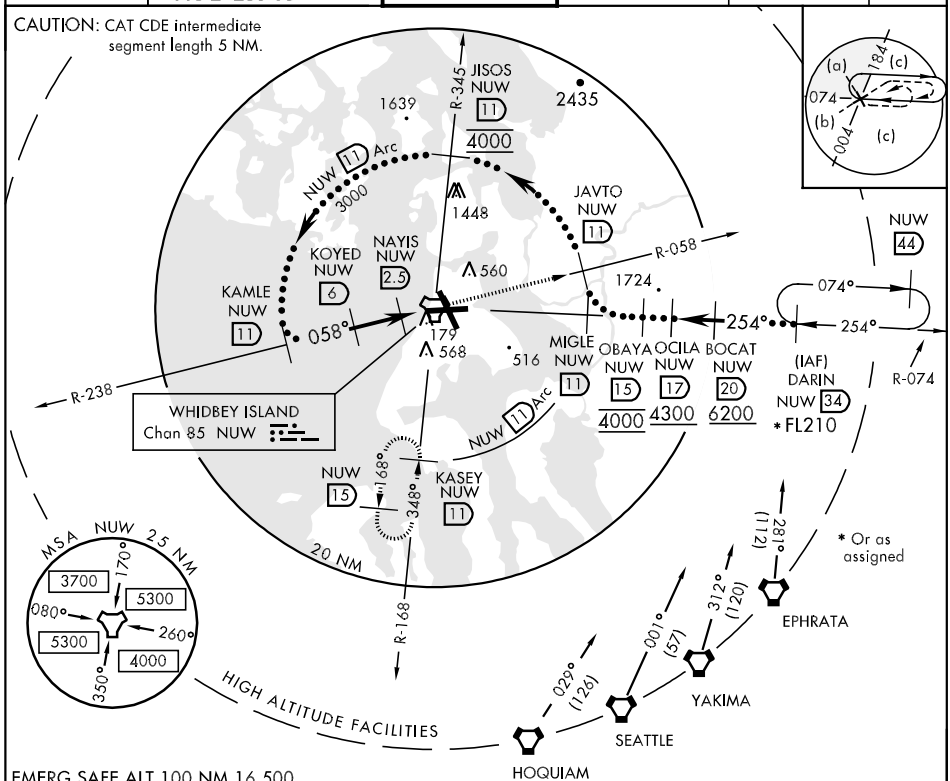
WHIDBEY ISLAND NAS (AULT FLD) (KNUW)



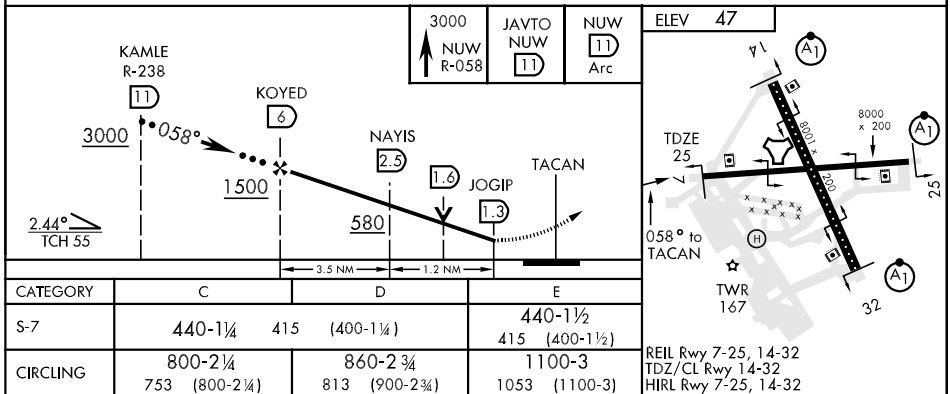
MISSED APPROACH: Climb to 3000 via NUW R-058 to JAVTO, then arc SE of NUW TACAN via 11 DME Arc to KASEY and hold.

ATIS	WHIDBEY APP CON		WHIDBEY TOWER	GND CON	CLNC DEL	ASR/PAR
134.15 281.5	120.7 270.8 EAST	118.2 285.6 WEST	127.9 340.2	121.75 336.4	135.1 379.9	

CAUTION: CAT CDE intermediate
segment length 5 NM.



EMERG SAFE ALT 100 NM 16,500



OAK HARBOR, WASHINGTON

48° 21' N-122° 39' W

WHIDBEY ISLAND NAS (AULT FLD) (KNUW)

10042

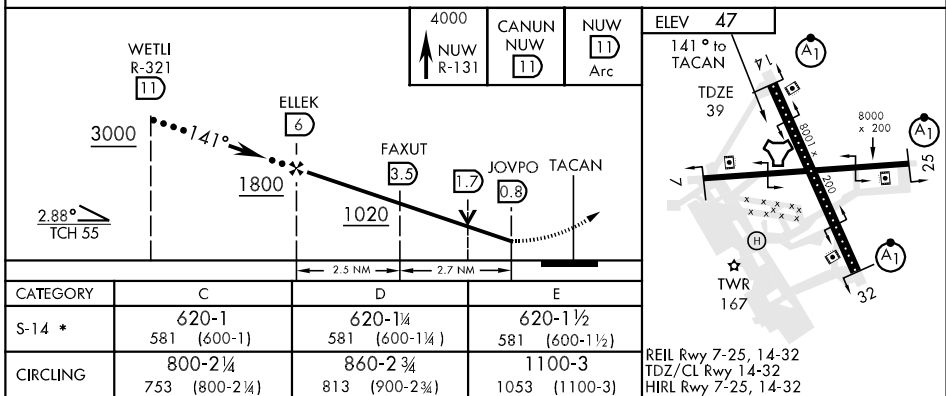
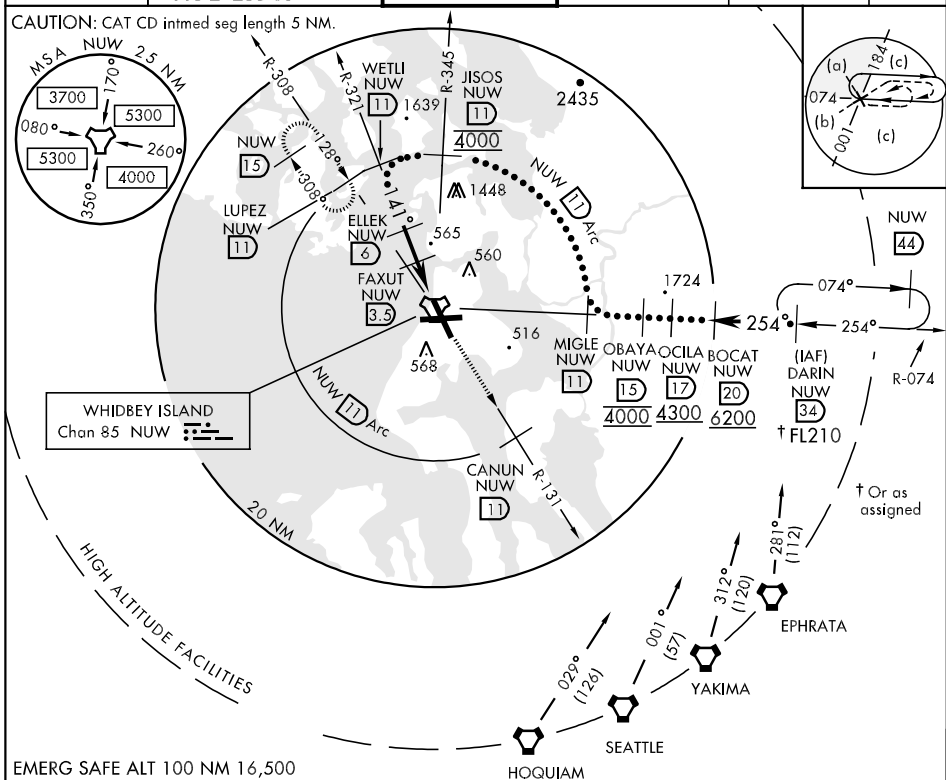
ULTAGANBMAZ

TACAN	NUW	APCH CRS	Rwy Idg	8001		
Chan	85	141°	TDZE	39	JAL-451 [USN]	WHIDBEY ISLAND NAS (AULT FLD) (KNUW)
			Arot Elev	47		

<p>▼ * When ALS inop, increase CAT C vis to 1½ miles, CAT D to 1¾ miles, CAT E to 2 miles.</p>	<p>ALSF-1</p> 	<p>MISSED APPROACH: Climb to 4000 via R-131 to CANUN, then arc SW of NUW TACAN via 11 DME Arc to LUPEZ and hold.</p>
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ATIS	WHIDBEY APP CON	WHIDBEY TOWER	GND CON	CLNC DEL	ASR/PAR
134.15 281.5	120.7 270.8 EAST 118.2 285.65 WEST	127.9 340.2	121.75 336.4	135.1 379.9	

CAUTION: CAT CD intmed seg length 5 NM.



TACAN NUW Chan 85	APCH CRS 254°	Rwy ldg TDZE Arpt Elev 8000 28 47
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JAL-451 [USN]

WHIDBEY ISLAND NAS (AULT FLD) (KNUW)

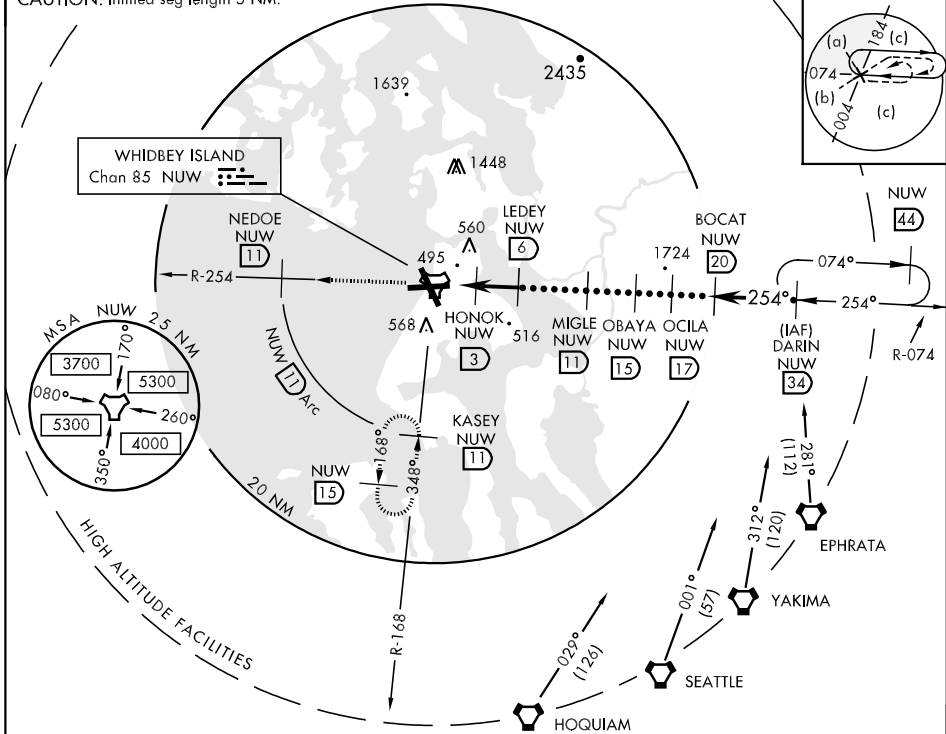
▼ * When ALS inop, increase CAT C vis to 2 miles,
CAT D to 2½ miles, CAT E to 2½ miles.



MISSED APPROACH: Climb to 3000 via R-254
to NEDOE, then arc SW of NUW TACAN via
11 DME Arc to KASEY and hold.

ATIS 134.15 281.5	WHIDBEY APP CON 120.7 270.8 118.2 285.65	EAST WEST	WHIDBEY TOWER 127.9 340.2	GND CON 121.75 336.4	CLNC DEL 135.1 379.9	ASR/PAR
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CAUTION: intmed seg length 5 NM.



EMERG SAFE ALT 100 NM 16,500

3000

↑

NUW

R-254

NEDOE

NUW

11

NUW

11

Arc

DARIN

R-074

NUW

34

TACAN

KIGVE

1.7

HONOK

2.8

LEDEY

6

MIGLE

11

OBAYA

15

OCILA

17

BOCAT

20

254°

↑

TFL 210

† Or as assigned

3.38°

TCH 55

840

1500

3000

4000

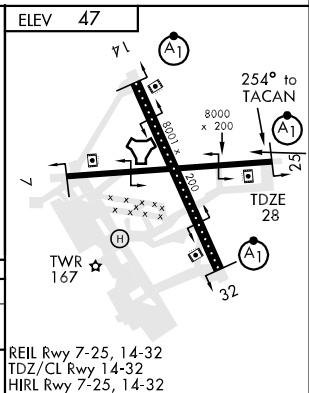
4300

6200

1.3 NM

3 NM

CATEGORY	C	D	E
S-25 *	<div>760-1½</div> <div>732 (800-1½)</div>	<div>760-1¾</div> <div>732 (800-1¾)</div>	<div>760-2</div> <div>732 (800-2)</div>
CIRCLING	<div>800-2¼</div> <div>753 (800-2¼)</div>	<div>860-2¾</div> <div>813 (900-2¾)</div>	<div>1100-3</div> <div>1053 (1100-3)</div>



TACAN NUW Chan 85	APCH CRS 311°	Rwy Idg 8001 TDZE 47 Arpt Elev 47
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JAL-451 [USN]

WHIDBEY ISLAND NAS (AULT FLD) (KNUW)

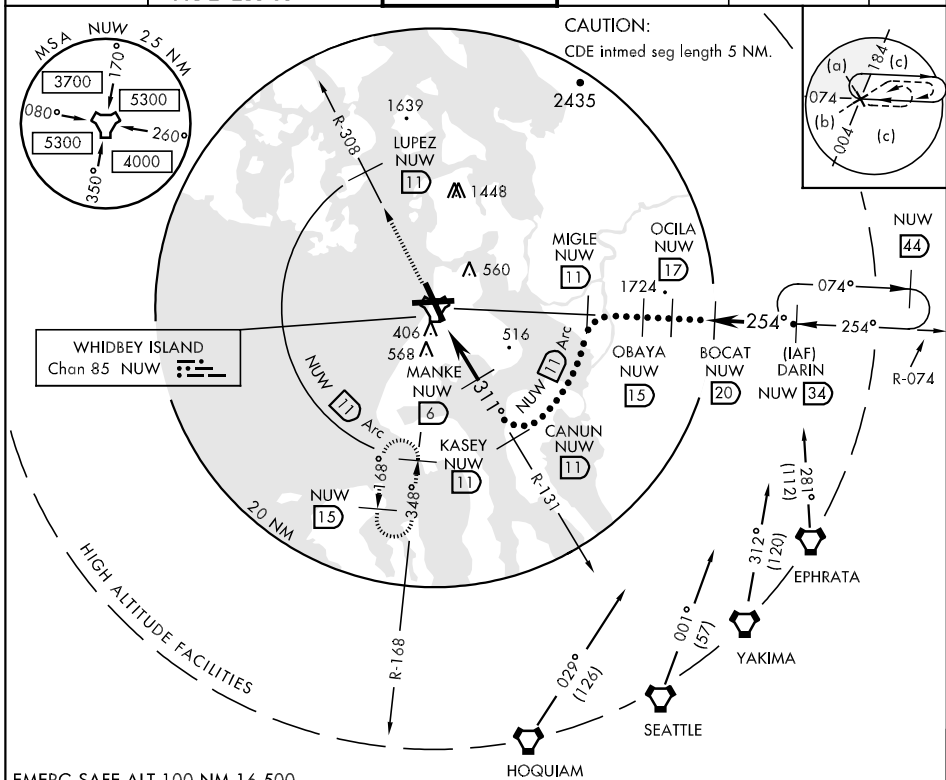


* When ALS inop, increase CAT C vis to 1¾ miles, CAT D to 2 miles, CAT E to 2¼ miles.

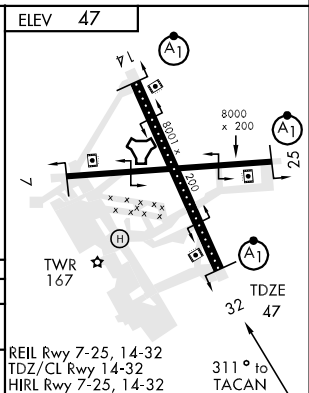
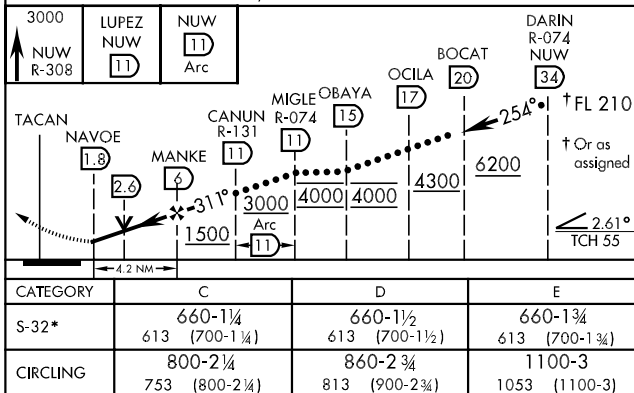


MISSED APPROACH: Climb to 3000 via R-308 to LUPEZ, then arc W of NUW TACAN via 11 DME Arc to KASEY and hold.

ATIS	WHIDBEY APP CON	WHIDBEY TOWER	GND CON	CLNC DEL	ASR/PAR
134.15 281.5	120.7 270.8 EAST 118.2 285.65 WEST	127.9 340.2	121.75 336.4	135.1 379.9	



EMERG SAFE ALT 100 NM 16,500



LOC I-NUW 110.1	APCH CRS 137°	Rwy ldg TDZE Arpt Elev 8001 39 47
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AL-451 [USN]

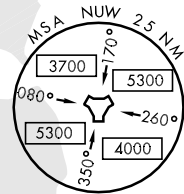
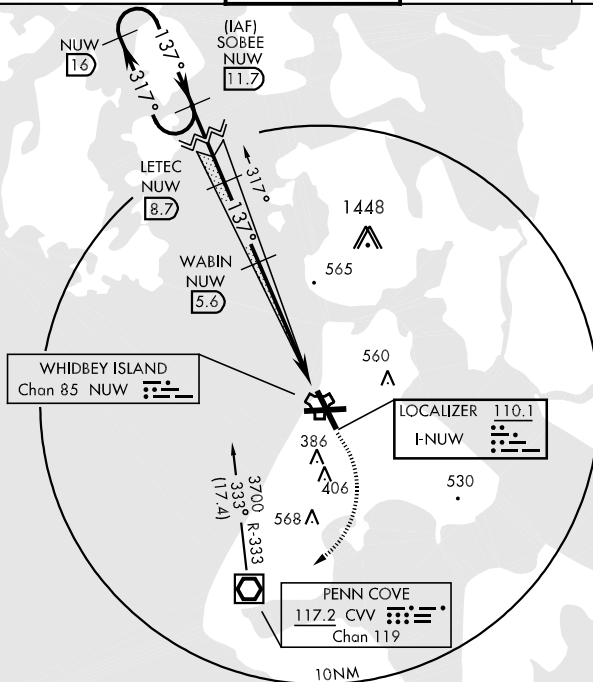
WHIDBEY ISLAND NAS (AULT FLD) (KNUW)

- * When ALS inop, increase vis to $\frac{3}{4}$ mile.
 ** When ALS inop, increase vis to 1 mile.



MISSED APPROACH: Climb to 800 via hdg 137°, then climbing right turn to 3700, direct CVV VOR/DME, then via CVV R-333 to SOBEE and hold.

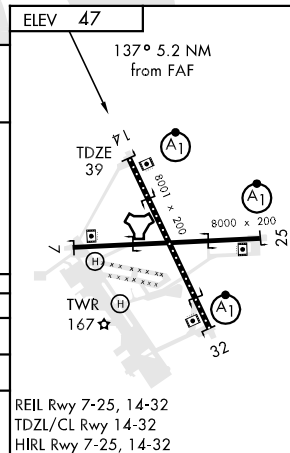
ATIS 134.15 281.5	WHIDBEY APP CON 120.7 270.8 EAST 118.2 285.65 WEST	WHIDBEY TOWER 127.9 340.2	GND CON 121.75 336.4	CLNC DEL 135.1 379.9	ASR/PAR
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DME REQUIRED

EMERG SAFE ALT 100 NM 16,500

	ELEV 47				
	137° 5.2 NM from FAF				
	<div> <div>800</div> <div>3700</div> <div>CVV</div> </div> <div> <div>↑</div> <div>hdg 137°</div> <div>↻</div> </div> <div> <div>8001 x 200</div> <div>8000 x 200</div> <div>25</div> </div>				
	<div> <div>3700</div> <div>←317°</div> <div>137°→</div> <div>737°</div> <div>2700</div> </div> <div> <div>SOBEE 11.7</div> <div>LETEC 8.7</div> <div>WABIN 5.6</div> </div> <div> <div>GS 3.00°</div> <div>TCH 53</div> </div> <div> <div>MEVRE 0.9</div> <div>TACAN</div> </div> <div> <div>1780</div> <div>1800</div> </div> <div> <div>4.7 NM</div> <div>0.5 NM</div> </div>				
CATEGORY	A	B	C	D	E
S-ILS 14 *	239- $\frac{1}{2}$ 200 (200- $\frac{1}{2}$)				
S-LOC 14 **	300- $\frac{1}{2}$ 261 (300- $\frac{1}{2}$)		300- $\frac{3}{4}$ 261 (300- $\frac{3}{4}$)		
CIRCLING	780-1 733 (800-1)	800-1 $\frac{1}{4}$ 753 (800-1 $\frac{1}{4}$)	800-2 $\frac{1}{4}$ 753 (800-2 $\frac{1}{4}$)	860-2 $\frac{3}{4}$ 813 (900-2 $\frac{3}{4}$)	1100-3 1053 (1100-3)

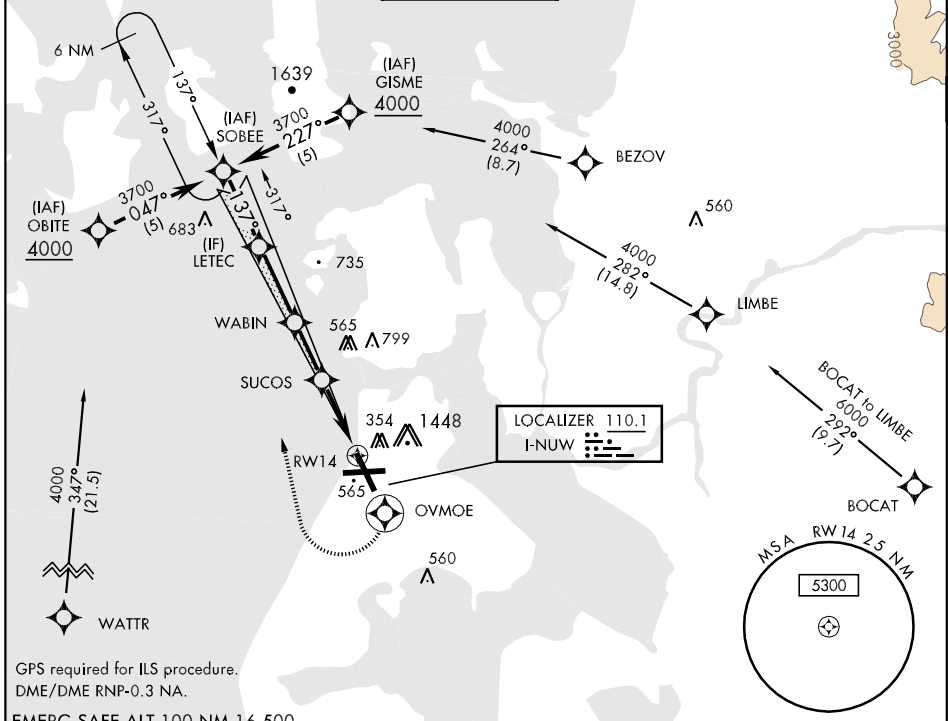


NW-1, 08 APR 2010 to 06 MAY 2010

OAK HARBOR, WASHINGTON	LOC I-NUW 110.1	APCH CRS 137°	Rwy ldg TDZE Arpt Elev 8001 39 47	AL-451 [USN]	WHIDBEY ISLAND NAS (AULT FLD) (KNUW)
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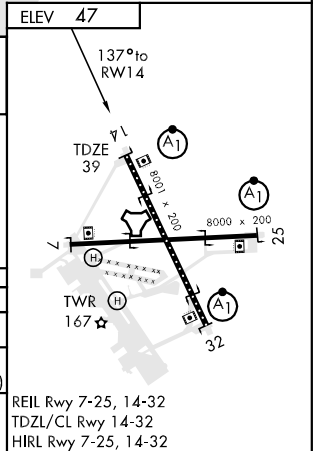
<p>▼ * When ALS inop, increase CAT ABCDE vis to ¾ mile.</p> <p>** When ALS inop, increase CAT AB vis to 1 mile, CAT C to 1 ¼ miles, CAT D to 1 ½ miles, CAT E to 1 ¾ miles.</p>	<p>ALSF-1</p> <p>(A1)</p>	<p>MISSED APPROACH: Climb to 3700 direct OVMOE, then climbing right turn direct SOBEE and hold.</p>
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<p>ATIS</p> <p>134.15 281.5</p>	<p>WHIDBEY APP CON</p> <p>120.7 270.8 EAST 118.2 285.65 WEST</p>	<p>WHIDBEY TOWER</p> <p>127.9 340.2</p>	<p>GND CON</p> <p>121.75 336.4</p>	<p>CLNC DEL</p> <p>135.1 379.9</p>	<p>ASR/PAR</p>
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GPS required for ILS procedure.
DME/DME RNP-0.3 NA.
EMERG SAFE ALT 100 NM 16,500

	<p>SOBEE 3700</p> <p>137°</p> <p>LETEC 2700</p> <p>WABIN</p> <p>SUCOS min alt 1800</p> <p>RW14</p> <p>GS 3.00° TCH 53</p> <p>3 NM 3 NM 2.3 NM 3 NM</p>				
CATEGORY	A	B	C	D	E
S-ILS 14 *	239-½ 200 (200-½)				
LNAV MDA **	460-½	421 (500-½)	460-¾	460-1	460-1¼
			421 (500-¾)	421 (500-1)	421 (500-1¼)
CIRCLING	780-1	800-1¼	800-2¼	860-2¾	1100-3
	733 (800-1)	753 (800-1¼)	753 (800-2¼)	813 (900-2¾)	1053 (1100-3)



PENN COVE ONE DEPARTURE (CVV1.CVV)

WHIBDEY ISLAND VORTIS (VORTIS FLD) (RWY CVV)

OAK HARBOR, WASHINGTON

ATIS 134.15 281.5
CLNC DEL
135.1 379.9
GND CON
121.75 336.4
WHIBDEY TOWER
127.9 340.2
WHIBDEY DEP CON
120.7 270.8 EAST
118.2 285.65 WEST

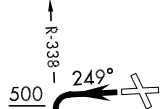
JAL-451 [USN]

Rwy	Knots	60	120	180	240
25 (A) V/V(fpm)		230	460	690	920
25 (B) V/V(fpm)		270	540	810	1080

ATC Climb Rate

- (A) to 2000
- (B) DIGGN transition only to 7000

PENN COVE
117.2 CVV
Chan 119



R-338

500

249°

158°

R-166

991

(81)

7000

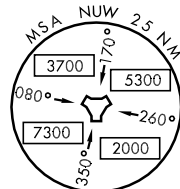
DIGGN
L-1

925

118
(27)

PAINÉ
110.6 PAE
Chan 43
L-1, H-1

3000



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 25: Climb to 500 feet on heading 249°. Then climbing left turn to intercept CVV R-338 to CVV VOR/DME. Cross CVV VOR/DME at or above 2000 feet. Thence....

....Via assigned transition or fly heading 158° and expect vectors to join assigned route.

DIGGN TRANSITION (CVV1.DIGGN): Via CVV R-166 to DIGGN, cross DIGGN at or above 7000 feet.

PAINÉ TRANSITION (CVV1.PAE): Via CVV R-118 to PAE VOR/DME. Cross PAE VOR/DME at or above 3000 feet.

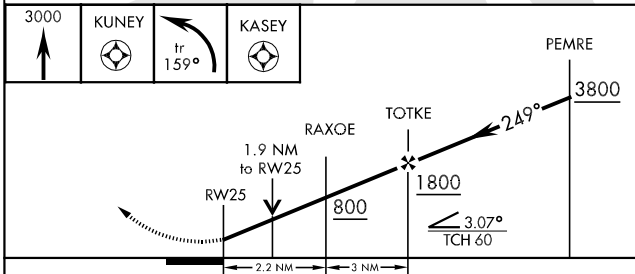
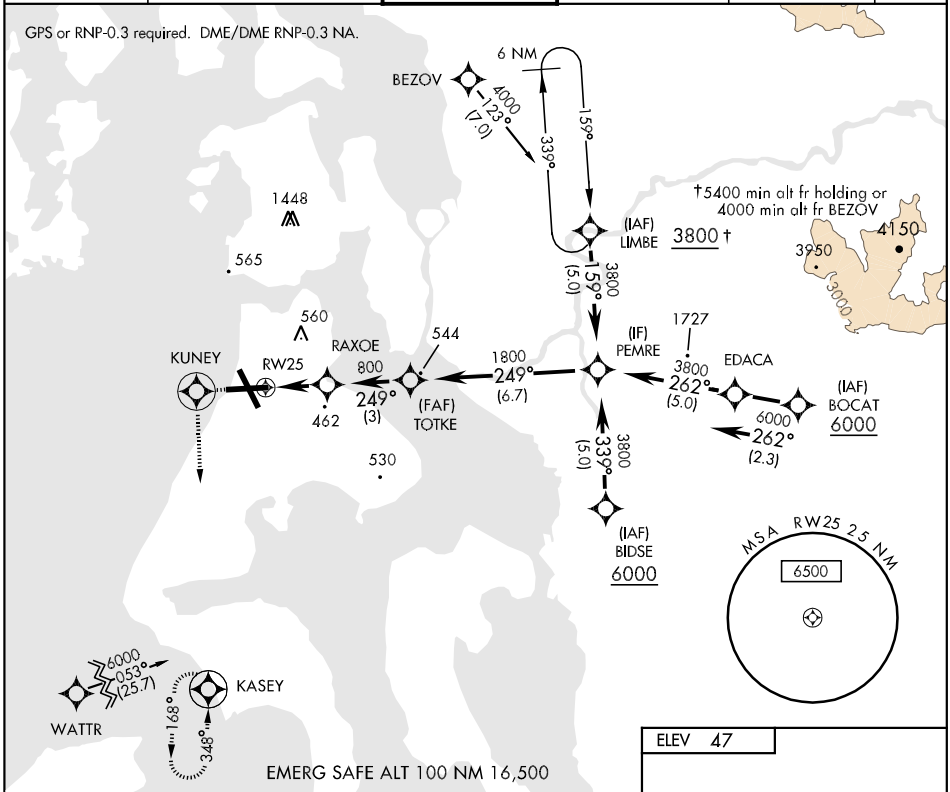
APCH CRS	Rwy Idg	8000
249°	TDZE	28
	Arpt Elev	47

AL-451 [USN]

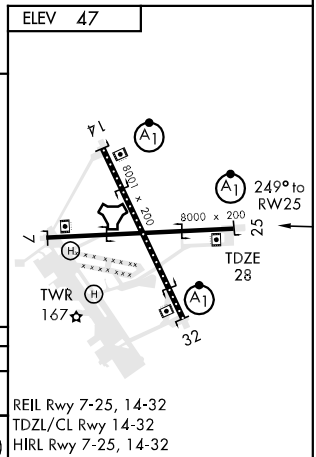
WHIDBEY ISLAND NAS (AULT FLD) (KNUW)

	* When ALS inop, increase CAT A/B vis to 1 mile, CAT C to 2 miles, CAT D to 2¼ miles, CAT E to 2½ miles.			MISSED APPROACH: Climb to 3000 direct KUNEY, then turn left via track 159° to KASEY and hold.	
	ATIS	WHIDBEY APP CON	WHIDBEY TOWER	GND CON	CLNC DEL
	134.15 281.5	120.7 270.8 EAST 118.2 285.65 WEST	127.9 340.2	121.75 336.4	135.1 379.9
					ASR/PAR

GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.



CATEGORY	A	B	C	D	E
LNAV MDA*	700-½ 672 (700-½)	700-1½ 672 (700-1½)	700-1¾ 672 (700-1¾)	700-2 672 (700-2)	700-2 672 (700-2)
CIRCLING	780-1 733 (800-1)	800-1½ 753 (800-1½)	800-2¼ 753 (800-2¼)	860-2¾ 813 (900-2¾)	1100-3 1053 (1100-3)



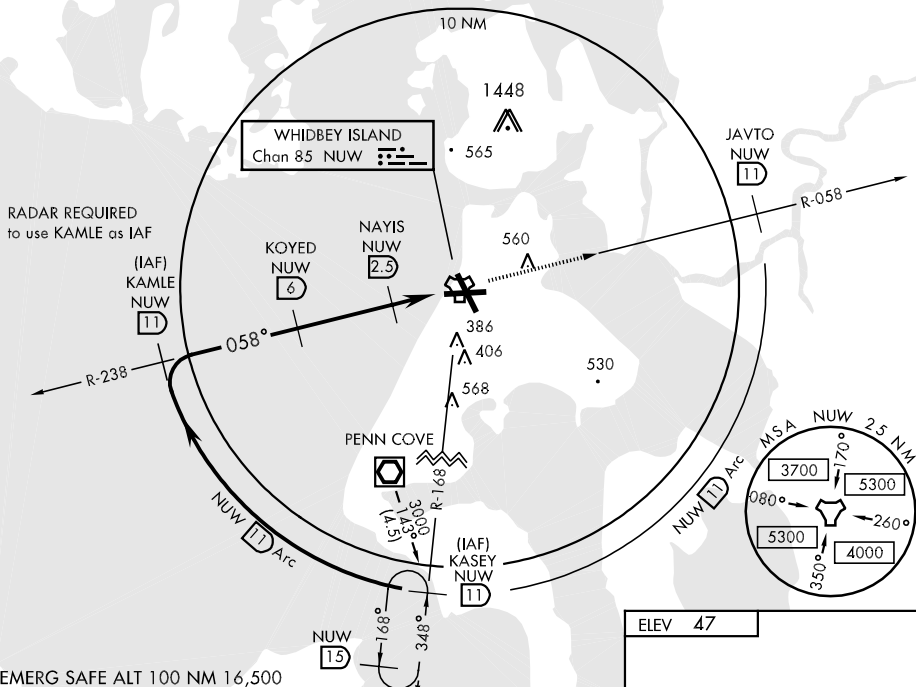
WHIDBEY ISLAND NAS (AULT FLD) (KNUW)



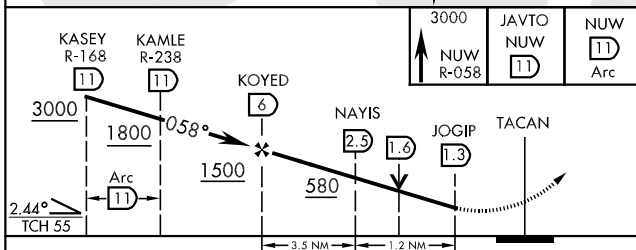
MISSED APPROACH: Climb to 3000 via R-058 to JAVTO, then arc SE of NUW TACAN via 11 DME Arc to KASEY and hold.

ASR/PAR

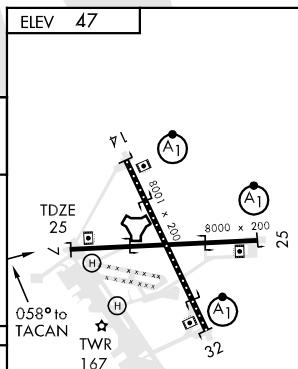
CAUTION:
CAT CD intmed seg length 5 NM



EMERG SAFE ALT 100 NM 16,500



CATEGORY	A	B	C	D
S-7	440-1 415 (400-1)		440-1¼ 415 (400-1¼)	
CIRCLING	780-1 733 (800-1)	800-1¼ 753 (800-1¼)	800-2¼ 753 (800-2¼)	860-2¾ 813 (900-2¾)



REIL Rwy 7-25, 14-32
TDZL/CL Rwy 14-32
HIRL Rwy 7-25, 14-32

TACAN NUW Chan 85	APCH CRS 141°	Rwy ldg 8001 TDZE 39 Arpt Elev 47
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AL-451 [USN]

WHIDBEY ISLAND NAS (AULT FLD) (KNUW)

▼ *When ALS inop, increase CAT A8 vis to 1 mile,
CAT C to 1½ miles, CAT D to 1¾ miles.

ALSF-1
A1

MISSED APPROACH: Climb to 4000 via R-131 to CANUN, then
arc SW of NUW TACAN via 11 DME Arc to LUPEZ and hold.

ATIS 134.15 281.5	WHIDBEY APP CON 120.7 270.8 EAST 118.2 285.65 WEST
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WHIDBEY TOWER 127.9 340.2

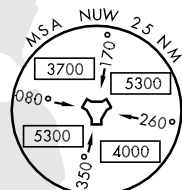
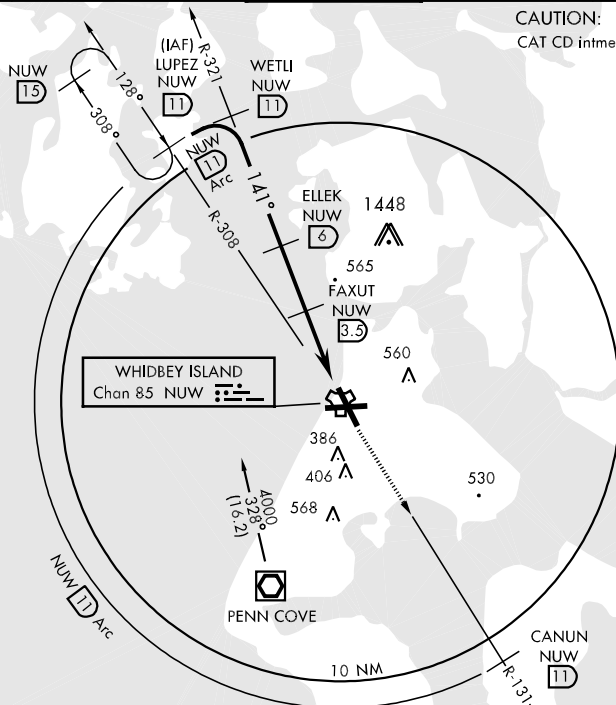
GND CON 121.75 336.4

CLNC DEL 135.1 379.9

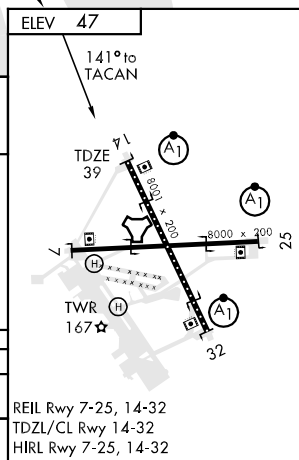
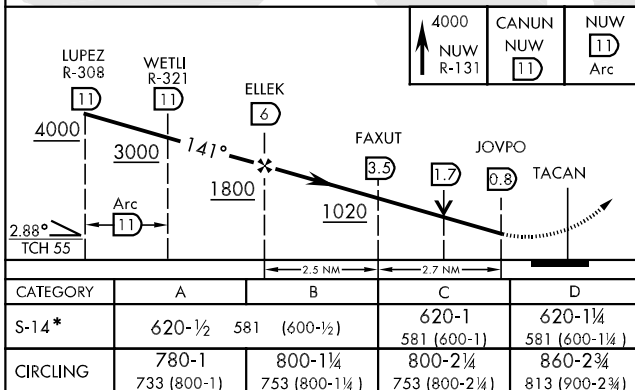
ASR/PAR

CAUTION:

CAT CD intmed seg length 5 NM.



EMERG SAFE ALT 100 NM 16,500



TACAN NUW Chan 85	APCH CRS 254°	Rwy Idg 8000 TDZE 28 Arpt Elev 47
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AL-451 [USN]

WHIDBEY ISLAND NAS (AULT FLD) (KNUW)

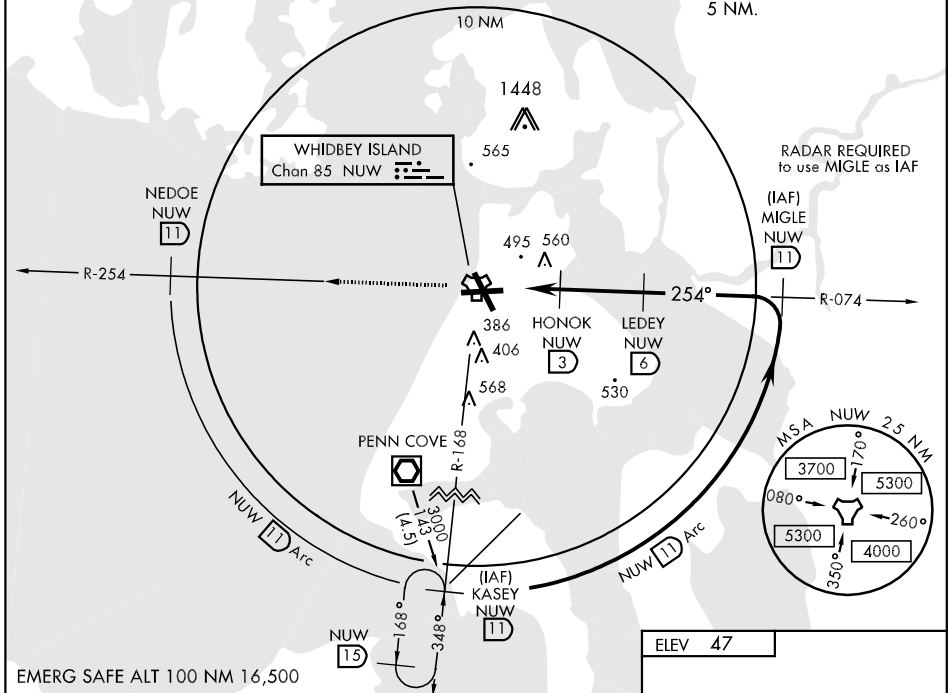
▼ * When ALS inop, increase CAT AB vis to 1 mile,
CAT C to 2 miles, CAT D to 2 1/4 miles.



MISSED APPROACH: Climb to 3000 via R-254 to NEDOE, then
arc SW of NUW TACAN via 11 DME Arc to KASEY and hold.

ATIS 134.15 281.5	WHIDBEY APP CON 120.7 270.8 EAST 118.2 285.65 WEST	WHIDBEY TOWER 127.9 340.2	GND CON 121.75 336.4	CLNC DEL 135.1 379.9	ASR/PAR
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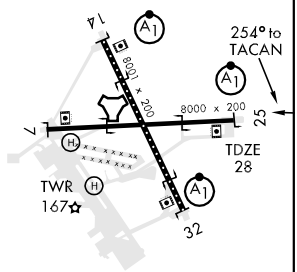
CAUTION: CAT CD intmed seg length
5 NM.



EMERG SAFE ALT 100 NM 16,500

CATEGORY	A	B	C	D
S-25 *	760-½ 732 (800-½)		760-1½ 732 (800-1½)	760-1¾ 732 (800-1¾)
CIRCLING	780-1 733 (800-1)	800-1¼ 753 (800-1¼)	800-2¼ 753 (800-2¼)	860-2¾ 813 (900-2¾)

ELEV 47



REIL Rwy 7-25, 14-32
TDZL/CL Rwy 14-32
HIRL Rwy 7-25, 14-32

TACAN	NUW	APCH CRS	Rwy Idg	8001		
Chan	85	311°	TDZE	47	AL-451 [USN]	WHIDBEY ISLAND NAS (AULT FLD) (KNUW)
			Arpt Elev	47		

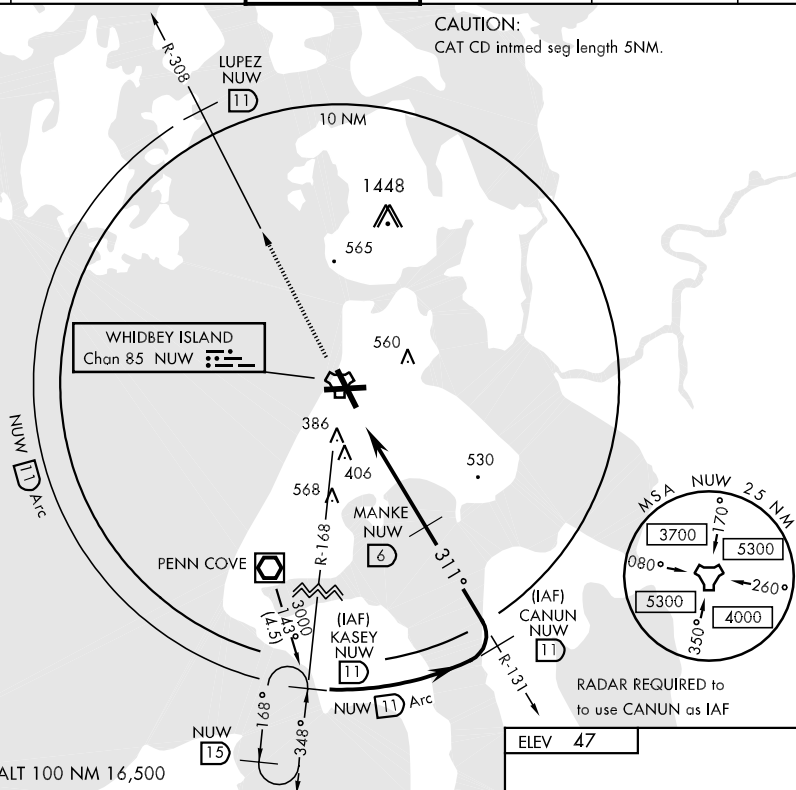
T * When ALS inop, increase CAT AB vis to 1 mile, CAT C to 1 3/4 miles, CAT D to 2 miles.

ALSF-1

MISSED APPROACH: Climb to 3000 via R-308 to LUPEZ, then Arc SW of NUW TACAN via 11 DME Arc to KASEY and hold.

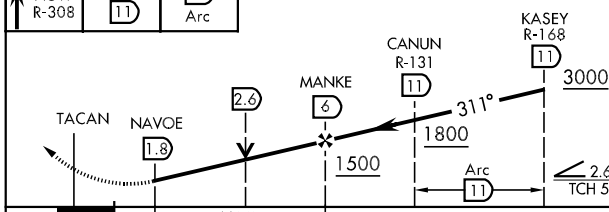
ATIS 134.15 281.5	WHIDBEY APP CON 120.7 270.8 EAST 118.2 285.65 WEST	WHIDBEY TOWER 127.9 340.2	GND CON 121.75 336.4	CLNC DEL 135.1 379.9	ASR/PAR
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CAUTION:
CAT CD intmed seg length 5NM.

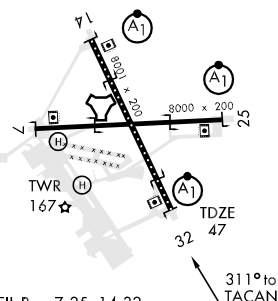


EMERG SAFE ALT 100 NM 16,500

3000 NUW R-308	LUPEZ NUW 11	NUW 11 Arc
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	4.2 NM				
CATEGORY	A		B	C	D
S-32*	660-1½ 613 (700-1½)			660-1¼ 613 (700-1¼)	660-1½ 613 (700-1½)
CIRCLING	780-1 733 (800-1)		800-1¼ 753 (800-1¼)	800-2¼ 753 (800-2¼)	860-2¾ 813 (900-2¾)



REIL Rwy 7-25, 14-32
TDZL/CL Rwy 14-32
HIRL Rwy 7-25, 14-32

APP CRS	Rwy Idg	2758
071°	TDZE	193
	Apt Elev	193

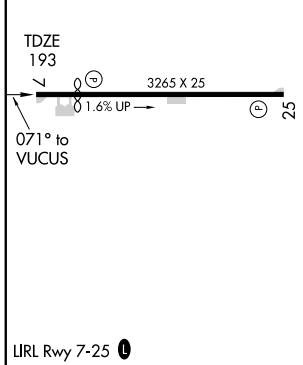
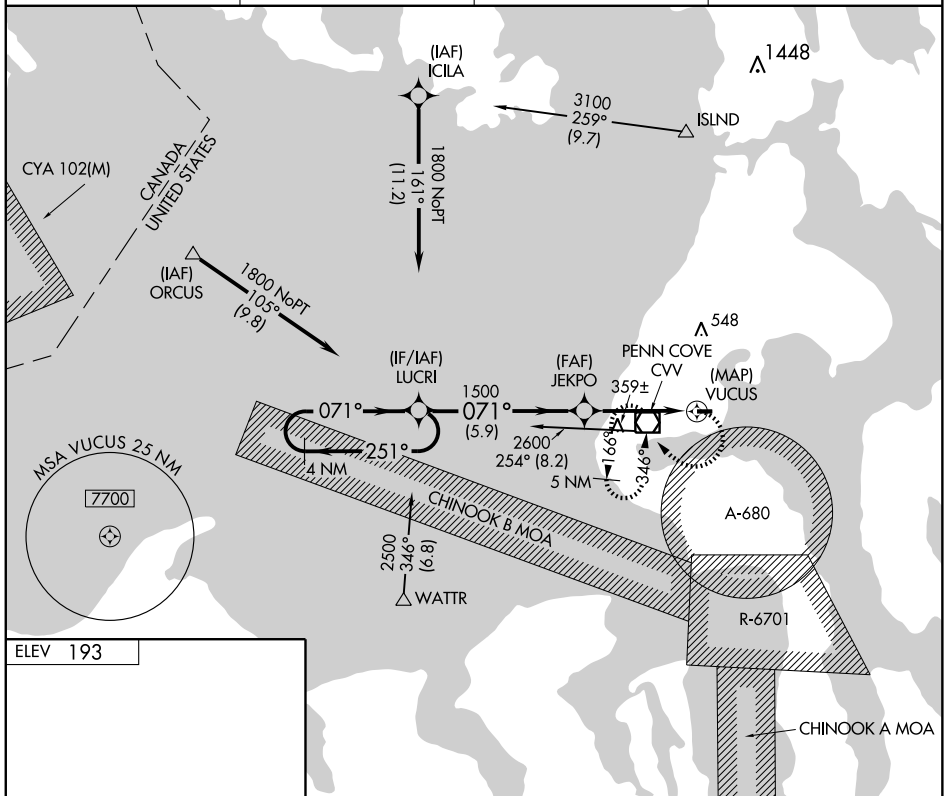
RNAV (GPS) RWY 7

OAK HARBOR/AJ EISENBERG (OKH)

V DME/DME RNP- 0.3 NA. Visibility reduction by helicopters NA.
A Circling north of Rwy 7-25 NA at night.
ASR When local altimeter setting not received, use Whidbey Island NAS altimeter setting and increase all MDAs 40 feet.

MISSED APPROACH: Climbing right turn to 3400 direct CVV VOR/DME and hold, continue climb-in-hold to 3400.

AWOS-3 132.775	WHIDBEY ATIS 134.15 281.5	WHIDBEY APP CON 118.2 285.65	UNICOM 122.8 (CTAF) 1
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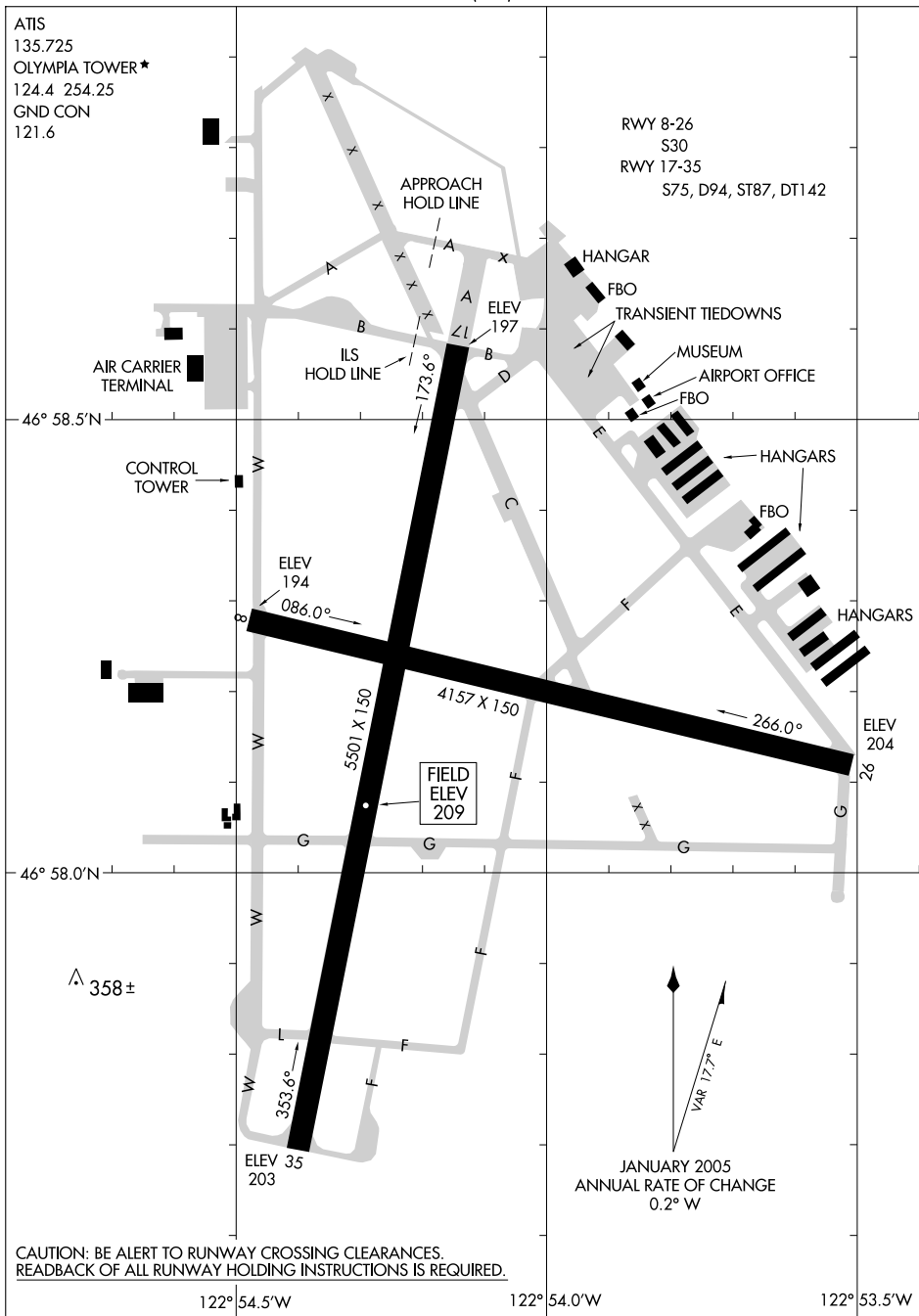


<div>4 NM Holding Pattern</div> <div>LUCRI</div> <div>1800 ← 251° 071° →</div> <div>JEKPO</div> <div>1500</div> <div>3.03° TCH 45</div> <div>VUCUS</div> <div>3400 CVV</div>				
<div>5.9 NM</div> <div>4 NM</div> <div>0.1</div>				
CATEGORY	A	B	C	D
LNAV MDA	620-1 427 (500-1)		NA	
CIRCLING	620-1 427 (500-1)	660-1 467 (500-1)	NA	

AIRPORT DIAGRAM

AL-645 (FAA)

OLYMPIA RGNL (OLM)
OLYMPIA, WASHINGTON



NW-1, 08 APR 2010 to 06 MAY 2010

CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
READEBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

LOC I-OLM	APP CRS	Rwy Idg	5501
111.9	172°	TDZE	207
		Apt Elev	209

ILS or LOC RWY 17

OLYMPIA RGNL (OLM)

▼ DME or RADAR required. When local altimeter setting not received, use Sanderson Field altimeter setting and increase all DA 53 feet and all MDA 60 feet, and increase circling Cats C and D visibility ¼ mile. For inoperative MALSR, when using Sanderson Field altimeter setting, increase S-ILS 17 all Cats visibility to 1 mile.

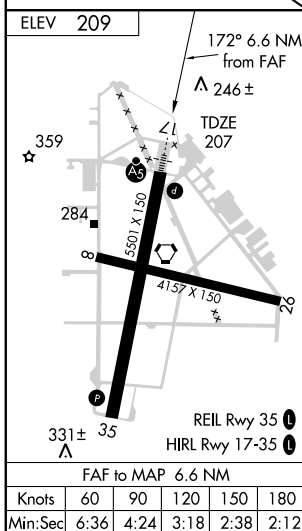
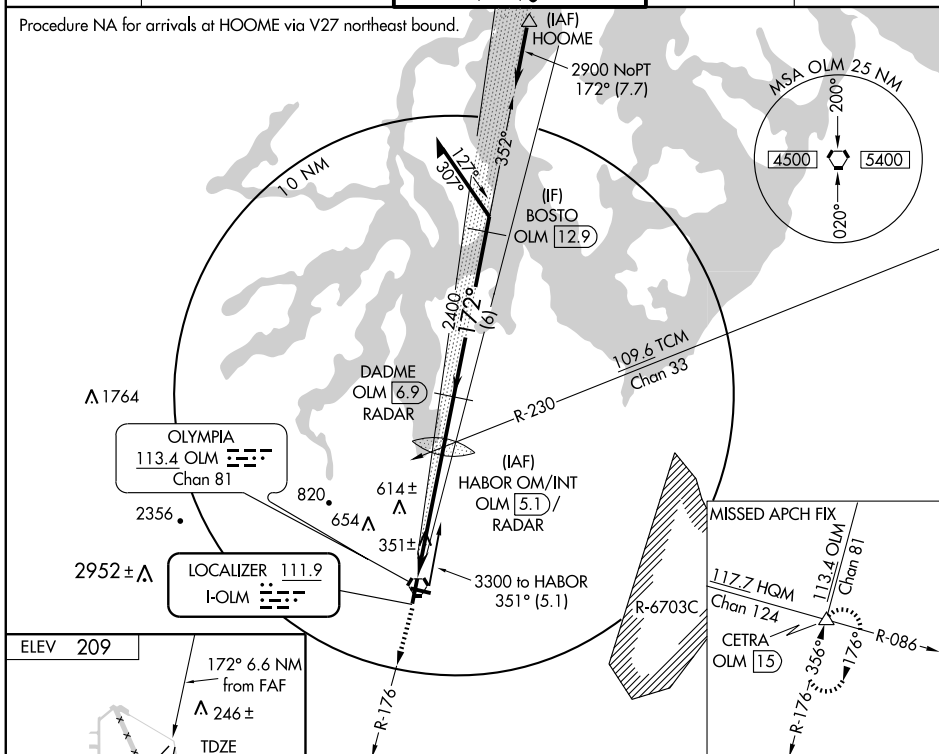
MALSR



MISSED APPROACH: Climb to 1400, then continue climb to 5500 via OLM VORTAC R-176 to CETRA INT/OLM VORTAC 1.5 DME and hold, continue climb-in-hold to 5500.

ATIS 135.725	SEATTLE APP CON 121.1 290.9	OLYMPIA TOWER* 124.4 (CTAF) 254.25	GND CON 121.6	UNICOM 122.95
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Procedure NA for arrivals at HOOME via V27 northeast bound.



ELEV 209	172° 6.6 NM from FAF 246 ± TDZE 207	1400 ↑ OLM R-176	5500 ↑ OLM R-176	CETRA △	HARBOR OM/INT OLM [5.1] /RADAR 3300	Remain within 10 NM
		OLM [0.3]			DADME 352° OLM [6.9] /RADAR	2900
					1787	2400
					4.8 NM	1.8 NM
					GS 3.00° TCH 53	
CATEGORY	A	B	C	D		
S-ILS 17		414-½	207 (300-½)			
S-LOC 17	640-½	433 (500-½)	640-¾ 433 (500-¾)	640-1 433 (500-1)		
CIRCLING	720-1	511 (600-1)	820-1¾ 611 (700-1¾)	860-2 651 (700-2)		

WAAS CH 45599 W17A	APP CRS 172°	Rwy Idg 5501 TDZE 207 Apt Elev 209
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RNAV (GPS) RWY 17

OLYMPIA RGNL (OLM)

- ▲** DME/DME RNP-0.3 NA. For inoperative MALS/R, increase LPV visibility all Cats to 1 1/4.
- ▲** For uncompenated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 49°C (120°F). When local altimeter setting not received, use Sanderson Field altimeter setting and increase all DA 53 feet and all MDA 60 feet; increase LPV and LNAV/VNAV visibility all Cats, LNAV Cats C/D and circling visibility Cats C/D 1/4 mile. VDP and Baro-VNAV NA when using Sanderson Field altimeter setting.

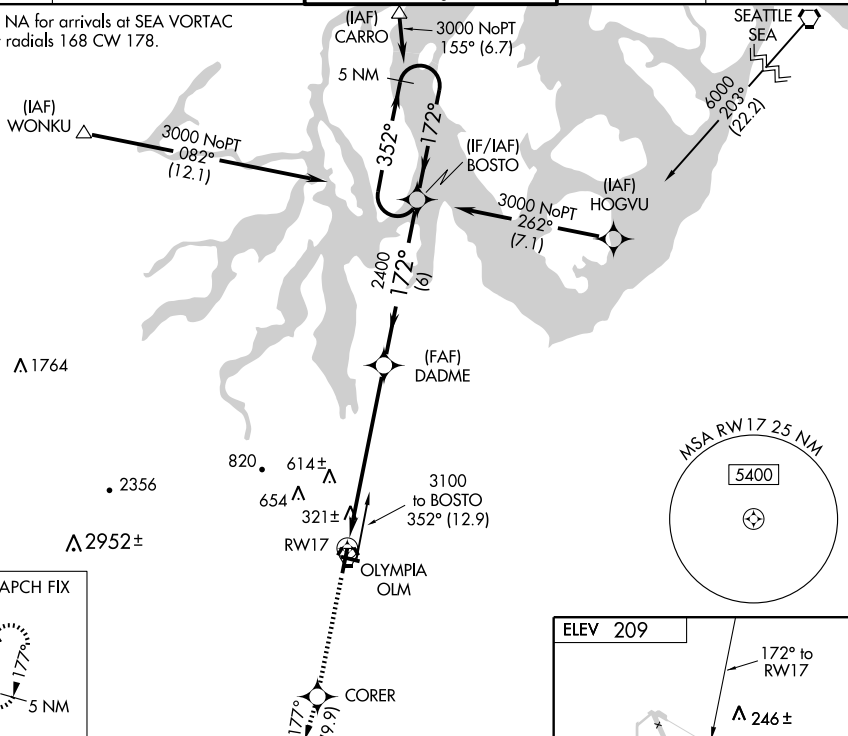
MALSR

MISSED APPROACH: Climb to 4000 direct CORER and via 177° track to CETRA and hold, continue climb-in-hold to 4000

ATIS 135.725	SEATTLE APP CON 121.1 290.9	OLYMPIA TOWER ★ 124.4 (CTAF) 0 254.25	GND CON 121.6	UNICOM 122.95
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Procedure NA for arrivals at SEA VORTAC
on airway radials 168 CW 178.



MISSED APCH FIX

4000
↑
CORER
177°
track
CETRA
△
DADME
↓
BOSTO
5 NM
Holding Pattern
352° → 3000

BOSTO

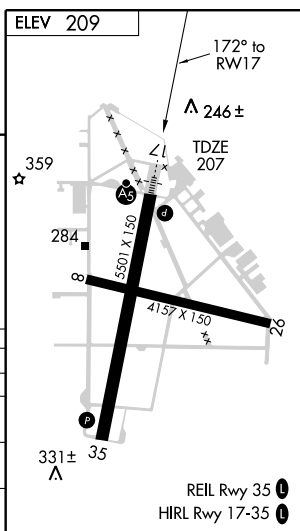
5 NM
Holding Pattern

352° →
← 172°

3000

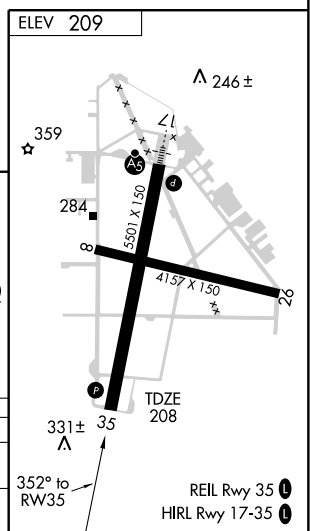
GS 3.00°
TCH 54

CATEGORY	A	B	C	D
LPV DA	590- ³ / ₄ 383 (400- ³ / ₄)			
LNAV/VNAV DA	636-1 429 (500-1)			
LNAV MDA	760- ¹ / ₂ 553 (600- ¹ / ₂)		760-1 553 (600-1)	760-1 ¹ / ₄ 553 (600-1 ¹ / ₄)
CIRCLING	760-1 551 (600-1)		820-1 ³ / ₄ 611 (700-1 ³ / ₄)	860-2 651 (700-2)



RNAV (GPS) RWY 35
OLYMPIA RGNL (OLM)

MISSED APPROACH: Climb to 4000 direct BOSTO and hold, continue climb-in-hold to 4000.

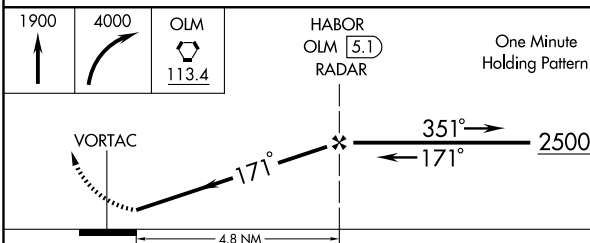
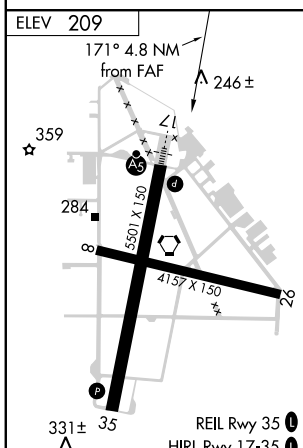
UNICOM
122.95

AL-645 (FAA)

VOR-A
OLYMPIA RGNL (OLM)

MISSED APPROACH: Climb to 1900 then climbing right turn to 4000 direct OLM VORTAC and hold, continue climb-in-hold to 4000.

DME or RADAR REQUIRED



FAF to MAP 4.8 NM						CATEGORY	A	B	C	D
Knots	60	90	120	150	180	CIRCLING	880-1 671 (700-1)		880-2 671 (700-2)	880-2½ 671 (700-2½)
Min:Sec	4:48	3:12	2:24	1:55	1:36					

NW-1. 08 APR 2010 to 06 MAY 2010

AL-645 (FAA)

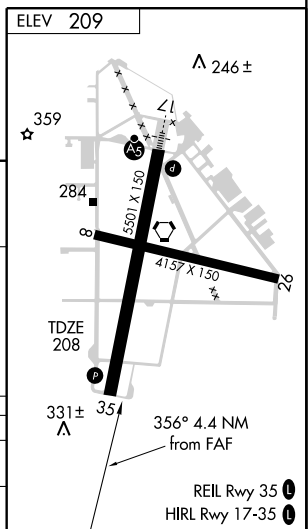
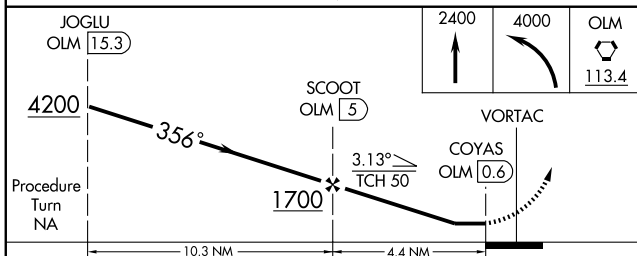
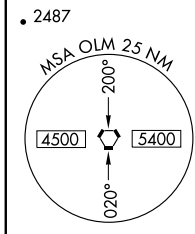
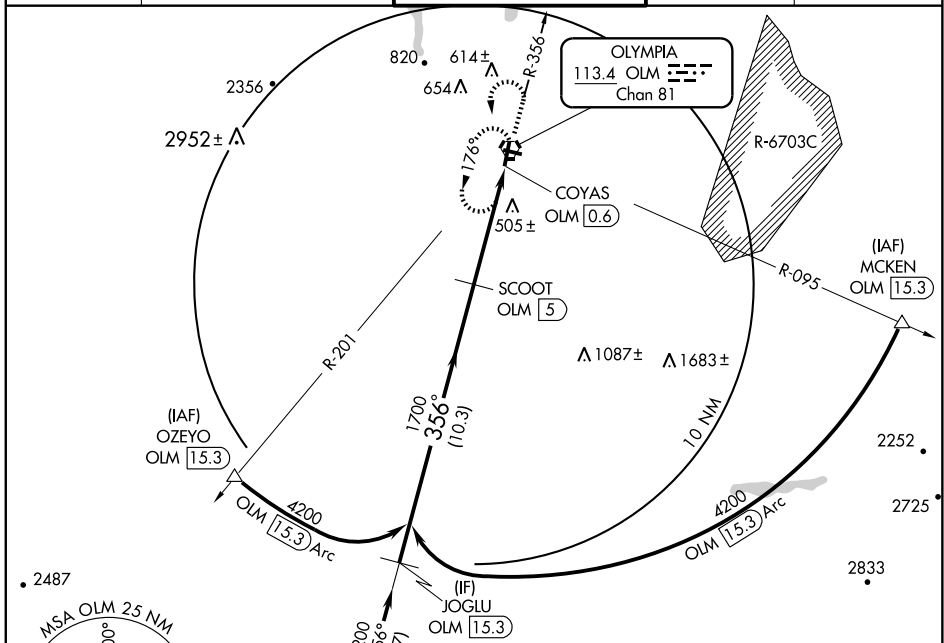
VORTAC OLM 113.4 Chan 81	APP CRS 356°	Rwy Idg 5501 TDZE 208 Apt Elev 209
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VOR/DME RWY 35
OLYMPIA RGNL (OLM)

T When local altimeter setting not received, use Sanderson Field
altimeter setting and increase all MDAs 60 feet; increase visibility
A S-35 Cats C/D ¼ mile and circling Cat D ¼ mile.
Visibility reduction by helicopters NA.

MISSED APPROACH: Climb to 2400, then climbing left turn to 4000 direct OLM VORTAC and hold, continue climb-in-hold to 4000.

ATIS 135.725	SEATTLE APP CON 121.1 290.9	OLYMPIA TOWER ★ 124.4 (CTAF) 0 254.25	GND CON 121.6	UNICOM 122.95
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CATEGORY	A	B	C	D
S-35	760-1	552 (600-1)	760-1½ 552 (600-1½)	760-1¾ 552 (600-1¾)
CIRCLING	760-1	551 (600-1)	820-1¾ 611 (700-1¾)	860-2 651 (700-2)

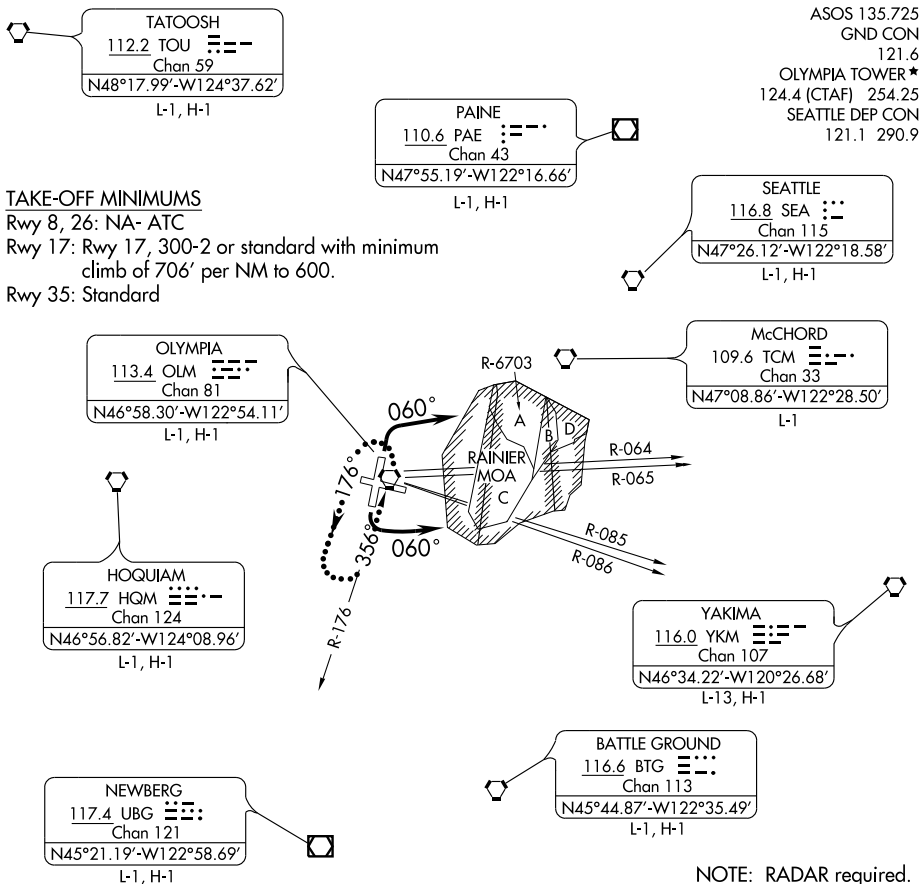
NW-1. 08 APR 2010 to 06 MAY 2010

YELM TWO DEPARTURE

SL-645 (FAA)

OLYMPIA RGNL (OLM)

OLYMPIA, WASHINGTON

TAKE-OFF OBSTACLE NOTES

RWY 17: Multiple trees beginning 1005' from DER, 24' left of centerline, up to 100' AGL/490' MSL.

Multiple trees beginning 752' from DER, 3' right of centerline, up to 100' AGL/370' MSL.

RWY 35: Multiple trees beginning 2176' from DER, 198 feet left of centerline up to 100' AGL/313' MSL.

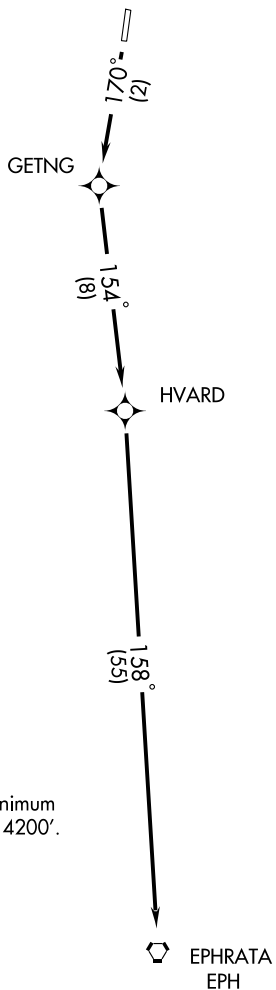
Multiple trees and FLDLT on HGR beginning 657' from DER, 621' right of centerline, up to 100' AGL/ 315' MSL.

DEPARTURE ROUTE DESCRIPTIONTAKE-OFF RUNWAY 17: Turn left. Thence....TAKE-OFF RUNWAY 35: Turn right. Thence....

...Climb via heading 060°, maintain 2000. Expect radar vectors on course and filed altitude within five minutes after departure.

LOST COMMUNICATIONS: If no contact with ATC within 6 NM of OLM VORTAC, or 2 minutes after departure for non-DME aircraft, turn left direct OLM VORTAC, continue climb in OLM VORTAC holding pattern to cross OLM VORTAC at or above R-086 CW R-064 4000 feet; R-065 CW R-085 7300 feet, continue climb via assigned route.

SEATTLE CENTER
126.1 291.6
SEATTLE RADIO
122.2



NOTE: 2200-2 or standard with a minimum climb of 300 Feet per Mile to 4200'.

NOTE: 1. GPS Required.
2. RNAV 1

NOTE: Chart not to scale

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 17: Climb to 4200 via 170° course to GETNG WP, 154° course to HVARD WP, and 158° course to EPH VORTAC. Thence proceed on course.

TAKE-OFF RUNWAY 35: NA

APP CRS	Rwy Idg	4654
335°	TDZE	1299
	Apt Elev	1301

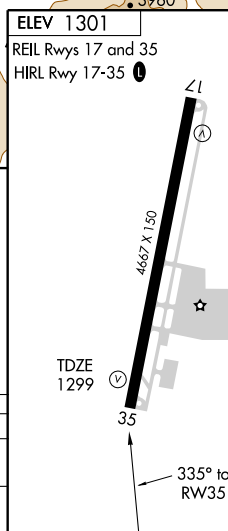
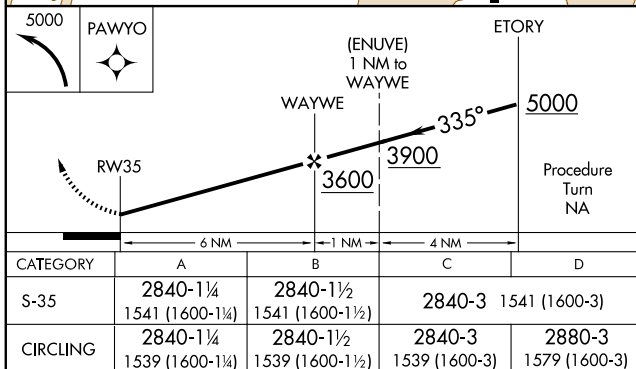
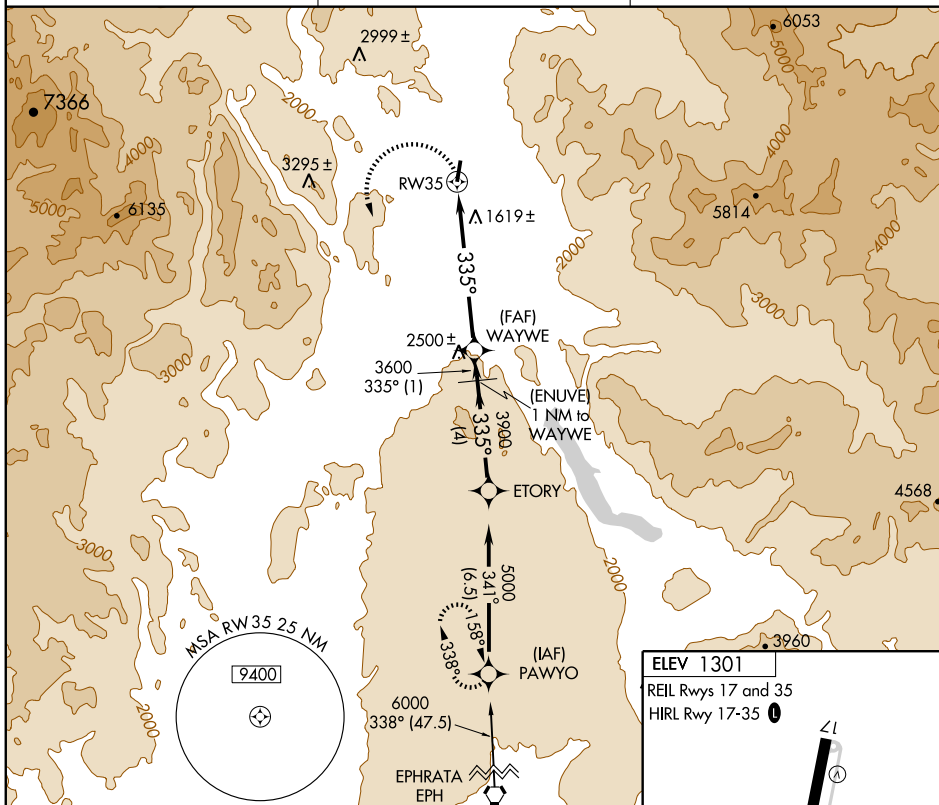
GPS RWY 35
OMAK (OMK)



MISSED APPROACH: Climbing left turn to 5000 direct PAWYO WP and hold.

ASOS
118.325

SEATTLE CENTER
126.1 291.6

UNICOM
122.8 (CTAF) **L**

AIRPORT DIAGRAM

AL-474 (FAA)

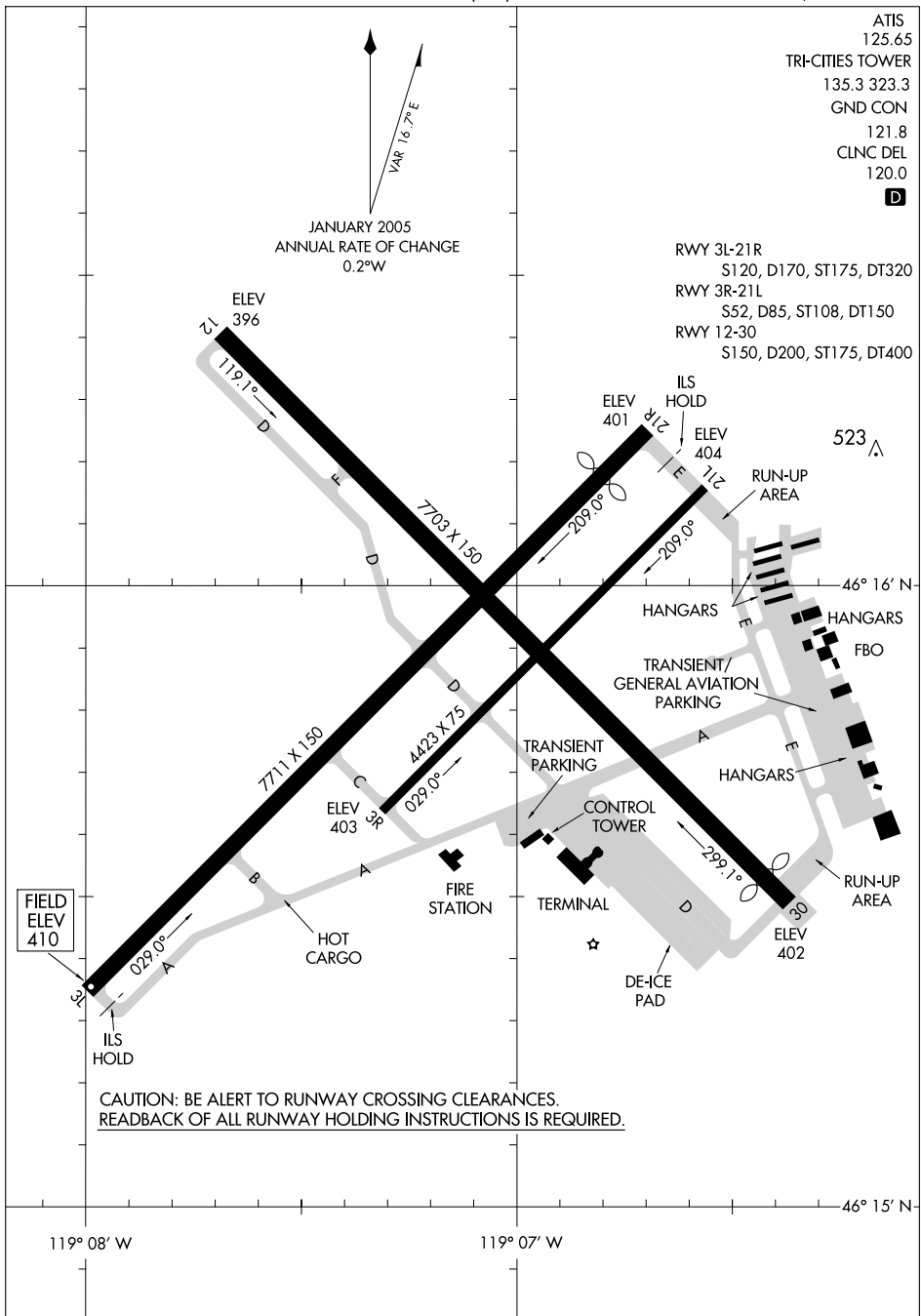
PASCO/TRI-CITIES (PSC)
PASCO, WASHINGTON

ATIS
125.65
 TRI-CITIES TOWER
135.3 323.3
 GND CON
121.8
 CLNC DEL
120.0



JANUARY 2005
 ANNUAL RATE OF CHANGE
 0.2°W

RWY 3L-21R
S120, D170, ST175, DT320
 RWY 3R-21L
S52, D85, ST108, DT150
 RWY 12-30
S150, D200, ST175, DT400



NW-1, 08 APR 2010 to 06 MAY 2010

ILS or LOC RWY 21R
PASCO/ TRI-CITIES (PSC)

- MALSR
A5

MISSED APPROACH: Climb to 1200 then climbing left turn to 3200 via heading 050° and PSC VOR/DME R-087 to CITYS INT/ PSC 14 DME and hold.

[illegible]

Plan View: Shows the runway (01/19) and taxiway layout. Key features include:

- Runway 01/19: 206° 5.9 NM from FAF.
- TDZE 404.
- Visual Aids: REIL (Runway End Identifier Lights) on Runway 01, MIRL (Medium Intensity Runway Lights) on Runway 12-30, and HIRL (High Intensity Runway Lights) on Runway 3L-21R.
- FAF (Final Approach Fix) to MAP 5.9 NM.

Profile View: Shows the ILS glideslope and associated altitudes:

- 1200: Minimum safe altitude.
- 3200: MSL (Mean Sea Level) altitude.
- R-087: Glide slope angle.
- 108.4: Frequency.
- CITY: City symbol.
- LOM (Line of Minimums): 2360.
- 206°: Glideslope angle.
- 2900: MSL altitude.
- 2400: MSL altitude.
- GS 3.00°: Glideslope angle.
- TCH 55: Threshold Crossing Height.
- 1080*: MSL altitude.
- 2 NM and 3.9 NM: Distances from the runway.

ILS and Circling Minimums Table:

CATEGORY	A	B	C	D
S-ILS 21R	**604/24 200 (200-½)			
S-LOC 21R	1080/24	676 (700-½)	1080-1½ 676 (700-1½)	1080-1¾ 676 (700-1¾)
CIRCLING	1080-1	670 (700-1)	1080-2 670 (700-2)	1080-2¼ 670 (700-2¼)
SUYOK FIX MINIMUMS				
S-LOC 21R	900/24	496 (500-½)	900/40 496 (500-¾)	900/50 496 (500-1)
CIRCLING	920-1	510 (600-1)	920-1½ 510 (600-1½)	1040-2 630 (700-2)

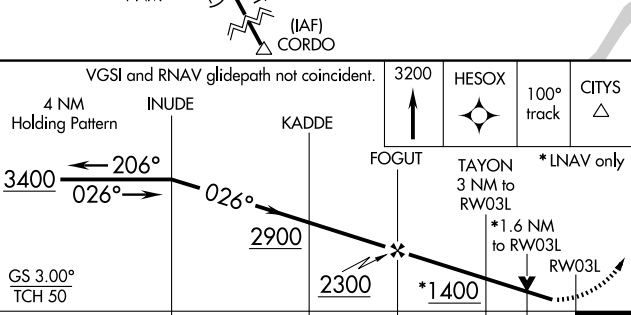
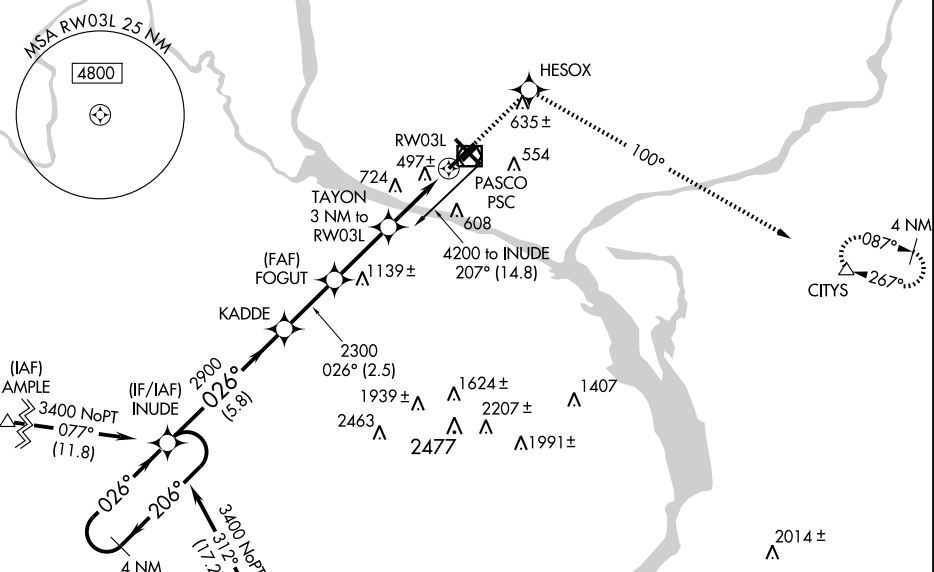
WAAS CH 40206 W03A	APP CRS 026°	Rwy Idg TDZE Apt Elev	7111 410 410
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RNAV (GPS) RWY 3L
PASCO/TRI-CITIES (PSC)

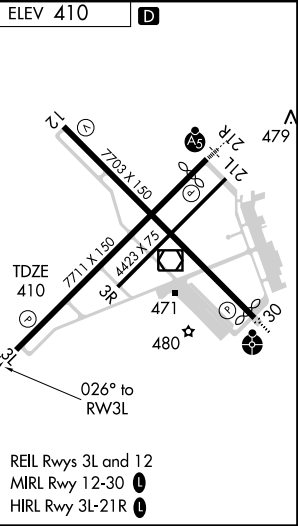
When local altimeter setting not received, use Hermiston altimeter setting and increase all DAs/MDAs 100 feet and all visibilities ¼ mile.
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 48°C (118°F).
VDP and Baro-VNAV NA when using Hermiston altimeter setting.
Circling to Rwy 3R NA at night. Visibility reduction by helicopters NA.
DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 3200 direct HESOX and via 100° track to CITYS and hold.

ATIS ★ 125.65	CHINOOK APP CON★ 128.75 377.2	TRI-CITIES TOWER★ 135.3 (CTAF) 0 323.3	GND CON 121.8	CLNC DEL 120.0	UNICOM 122.95
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CATEGORY	A	B	C	D
LPV DA	660-1 250 (300-1)			
LNAV/VNAV DA	829-1½ 419 (500-1½)			
LNAV MDA	960-1 550 (600-1)	960-1½ 550 (600-1½)	960-1¾ 550 (600-1¾)	
CIRCLING	960-1 550 (600-1)	960-1½ 550 (600-1½)	1040-2 630 (700-2)	



⚠

When local altimeter setting not received, use Hermiston altimeter setting and increase all DAs/MDAs 100 feet and all visibilities ½ mile.

⚠

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 48°C (118°F).

VDP and Baro-VNAV NA when using Hermiston altimeter setting.

Circling to Rwy 3R NA at night. DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 3200 direct DIVRE and via 083° track to CITYS and hold.

ATIS ★ 125.65	CHINOOK APP CON ★ 128.75 377.2	TRI-CITIES TOWER ★ 135.3 (CTAF) 0 323.3	GND CON 121.8	CLNC DEL 120.0	UNICOM 122.95
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ELEV 410

REIL Rwy 3L and 12
MRL Rwy 12-30
HIRL Rwy 3L-21R

4 NM Holding Pattern				
GS 3.00° TCH 56				
7.2 NM 4.1 NM 1.3 NM				
CATEGORY	A	B	C	D
LPV DA	748-1¼ 346 (400-1¼)			
LNAV/VNAV DA	894-1¾ 492 (500-1¾)			
LNAV MDA	860-1 458 (500-1)		860-1¼ 458 (500-1¼)	860-1½ 458 (500-1½)
CIRCLING	920-1 510 (600-1)		920-1½ 510 (600-1½)	1040-2 630 (700-2)

NW-1. 08 APR 2010 to 06 MAY 2010

⚠

For inoperative MALS, increase LPV all Cats visibility to RVR 5000 and LNAV Cat D visibility to RVR 6000.

⚠

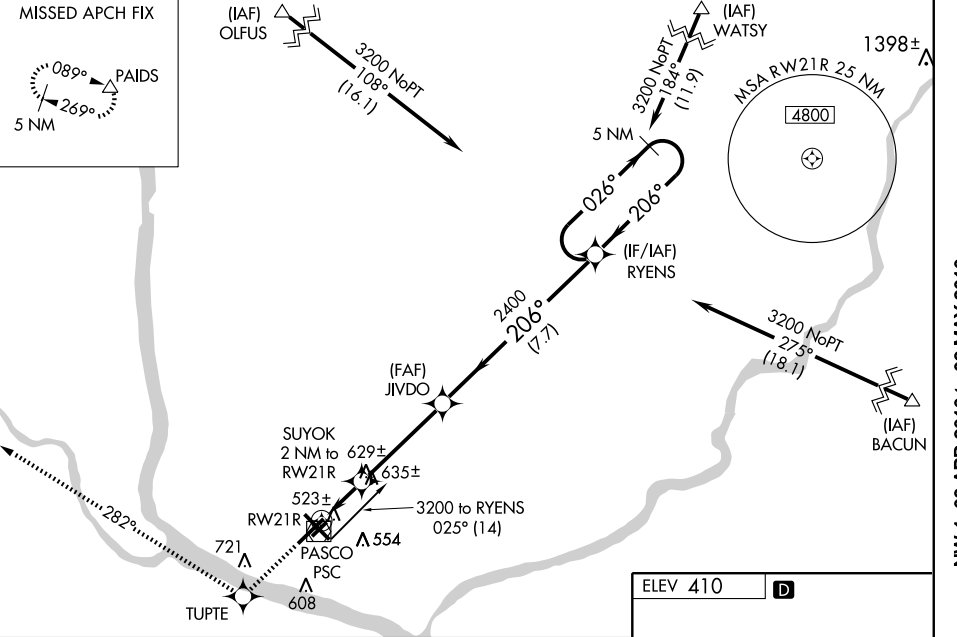
If local altimeter setting not received, use Hermiston altimeter setting and increase all DAs/MDAs 100 feet.

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 48°C (118°F). DME/DME RNP-0.3 NA. VDP and Baro-VNAV NA when using Hermiston altimeter setting.

MALS

MISSED APPROACH: Climb to 5200 direct TUPTTE and via 282° track to PAIDS and hold, continue climb-in-hold to 5200.

ATIS ★ 125.65	CHINOOK APP CON★ 128.75 377.2	TRI-CITIES TOWER★ 135.3 (CTAF) 0 323.3	GND CON 121.8	CLNC DEL 120.0	UNICOM 122.95
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ELEV 410

D

5200

TUPTTE

282° track

PAIDS

%1180 when using Hermiston altimeter setting.

*LNAV only

RYENS

5 NM Holding Pattern

SUYOK

2 NM to RW21R

JIVDO

206°

026°

3200

2400

GS 3.00° TCH 55

1 NM

1 NM

4 NM

7.7 NM

CATEGORY	A	B	C	D
LPV DA	680/24 276 (300-½)			
LNAV/VNAV DA	797/40 393 (400-¾)			
LNAV MDA	780/24 376 (400-½)		780/50 376 (400-1)	
CIRCLING	880-1 470 (500-1)		900-1½ 1040-2 630 (700-2)	

REIL Rwy 3L and 12

MIRL Rwy 12-30

HIRL Rwy 3L-21R

NW-1. 08 APR 2010 to 06 MAY 2010

▼

When local altimeter setting not received, use Hermiston altimeter setting and increase all DAs/MDAs 100 feet and all visibilities ½ mile.

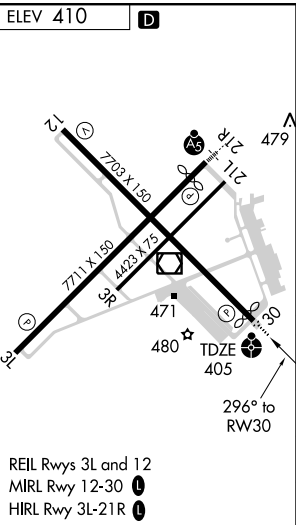
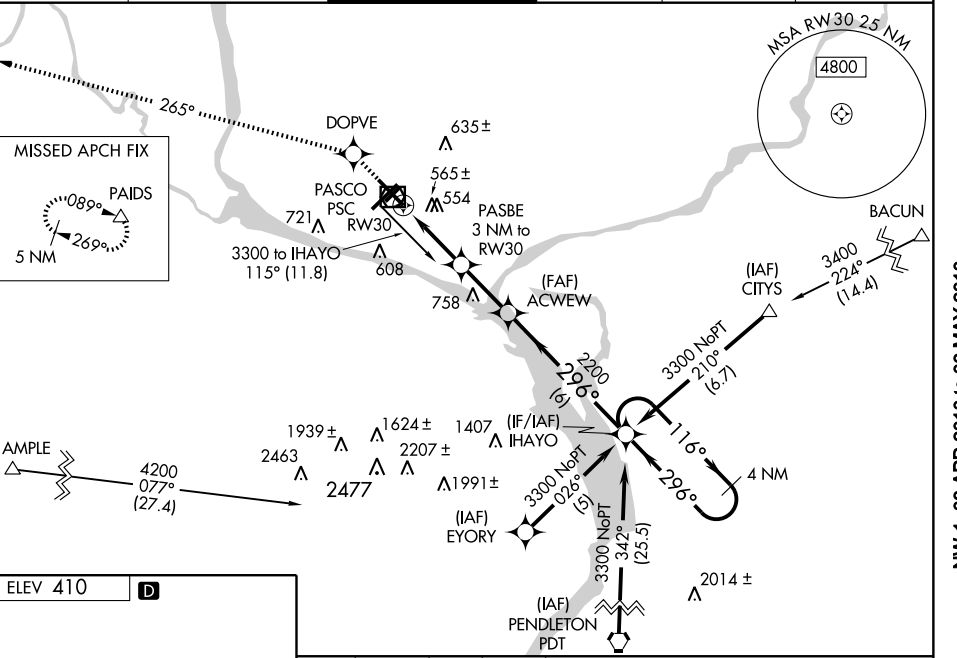
▲

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 48°C (118°F).
VDP and Baro-VNAV NA when using Hermiston altimeter setting.
Inoperative table does not apply. Circling to Rwy 3R NA at night.
Visibility reduction by helicopters NA. DME/DME RNP-0.3 NA.

ODALS

MISSED APPROACH: Climb to 5200 direct DOPVE and via 265° track to PAIDS and hold, continue climb-in-hold to 5200.

ATIS ★ 125.65	CHINOOK APP CON★ 128.75 377.2	TRI-CITIES TOWER★ 135.3 (CTAF) 0 323.3	GND CON 121.8	CLNC DEL 120.0	UNICOM 122.95
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5200	DOPVE	265° track	PAIDS	4 NM Holding Pattern
*LNAV only				
PASBE 3 NM to RW30 * 1.3 NM to RW30				
RW30				
1400*				
1.3 NM 1.7 2.4 NM 6 NM				
CATEGORY				
LPV DA	777-1¼ 372 (400-1¼)			
LNAV/VNAV DA	913-1¾ 508 (600-1¾)			
LNAV MDA	880-1 475 (500-1)		880-1¼ 475 (500-1¼)	880-1½ 475 (500-1½)
CIRCLING	920-1 510 (600-1)		920-1½ 510 (600-1½)	1040-2 630 (700-2)

TRI-CITIES FOUR DEPARTURE

SL-474 (FAA)

PASCO/TRI-CITIES (PSC)
PASCO, WASHINGTON

ATIS 125.65
CLNC DEL
120.0
GND CON
121.8
TRI-CITIES TOWER
135.3 (CTAF) 323.3
CHINOOK DEP CON
128.75 377.2

WENATCHEE
111.0 EAT :--
Chan 47
N47°23.98'-W120°12.65'
L-13

EPHRATA
112.6 EPH :--
Chan 73
N47°22.68'-W119°25.44'
L-13, H-1

SPOKANE
115.5 GEG :--
Chan 102
N47°33.90'-W117°37.61'
L-13, H-1

MOSES LAKE
115.0 MWH :--
Chan 97
N47°12.65'-W119°19.01'
L-13, H-1

PULLMAN
109.0 PUW :--
Chan 27
N46°40.46'-W117°13.41'
L-13

ELLENSBURG
117.9 ELN :--
Chan 126
N47°01.46'-W120°27.51'
L-13, H-1

PASCO
108.4 PSC :--
Chan 21
N46°15.78'-W119°06.94'
L-13

NEZ PERCE
108.2 MQG :--
Chan 19
N46°22.89'-W116°52.17'
L-13

YAKIMA
116.0 YKM :--
Chan 107
N46°34.22'-W120°26.68'
L-13, H-1

WALLA WALLA
116.4 ALW :--
Chan 111
N46°05.22'-W118°17.55'
L-13

KLUCKITAT
112.3 LTJ :--
Chan 70
N45°42.81'-W121°06.05'
L-13, H-1

PENDLETON
114.7 PDT :--
Chan 94
N45°41.91'-W118°56.32'
L-13, H-1

NOTE: SID will not be assigned when Control Tower is closed.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

Fly runway heading, or ATC assigned heading, for vector to assigned route/fix. Maintain 10,000' or assigned lower altitude. Expect clearance to filed altitude 5 minutes after departure.

LOST COMMUNICATIONS: Climb runway heading to 3,000' then reverse course direct PSC VOR/DME to cross at or above MEA for route of flight.

⚠ Inoperative table does not apply to Cat C.

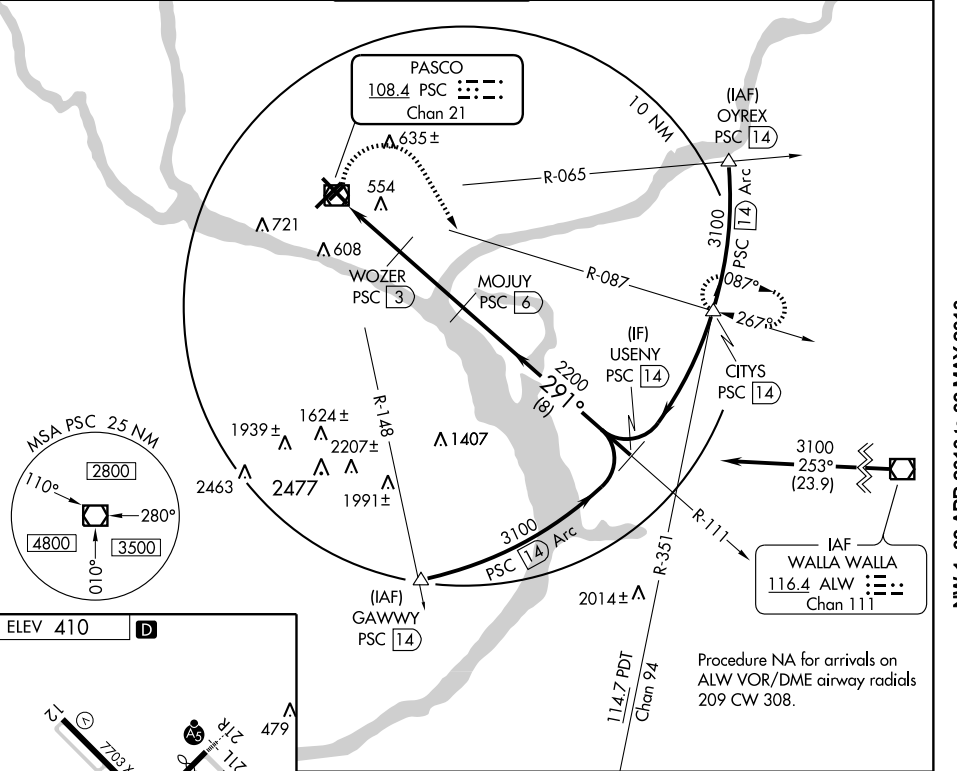
⚠ Visibility reduction by helicopters NA.

When local altimeter setting not received, use Hermiston altimeter setting and increase all MDA 100 feet, increase S-30 visibility Cat C ¼ mile, Cat D ½ mile and circling Cat D ¼ mile.

ODALS

MISSED APPROACH: Climbing right turn to 3200 via heading 130° and PSC R-087 to CITYS INT/PSC 14 DME and hold.

ATIS★ 125.65	CHINOOK APP CON★ 128.75 377.2	TRI-CITIES TOWER★ 135.3 (CTAF) 323.3	GND CON 121.8	CLNC DEL 120.0	UNICOM 122.95
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	3200	PSC R-087 108.4	CITYS △	USENY PSC 14	
	130°				
		WOZER PSC 3	MOJUJ PSC 6		
		PSC 1.6	2.95° TCH 54	3100	
		PSC 0.4	2200		
		1260			
		1.1 NM	1.5 NM	3 NM	8 NM
CATEGORY	A	B	C	D	
S-30	820-¾	415 (500-¾)	820-1 ¼	415 (500-1 ¼)	
CIRCLING	860-1	450 (500-1)	900-1 ½	1040-2	
			490 (500-1 ½)	630 (700-2)	

VOR/DME PSC 108.4 Chan 21	APP CRS 195°	Rwy Idg 7111 TDZE 404 Apt Elev 410
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VOR RWY 21R
PASCO/ TRI-CITIES (PSC)

T If local altimeter setting not received, use Hermiston altimeter setting and increase all MDAs 100 feet.
A VDP NA when using Hermiston altimeter setting.
ADF or DME required. Circling to Rwy 03R NA at night.

MALSR



MISSED APPROACH: Climbing left turn to 3200 via heading 070° and PSC VOR/DME R-087 to CITYS INT/PSC 14 DME and hold.

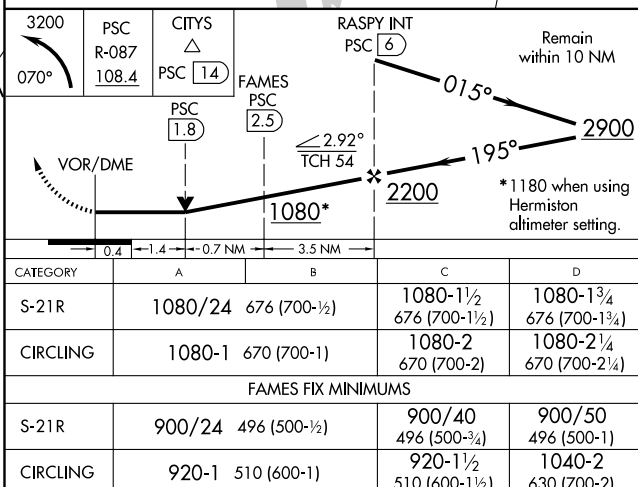
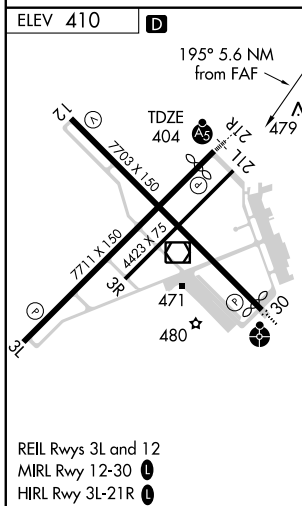
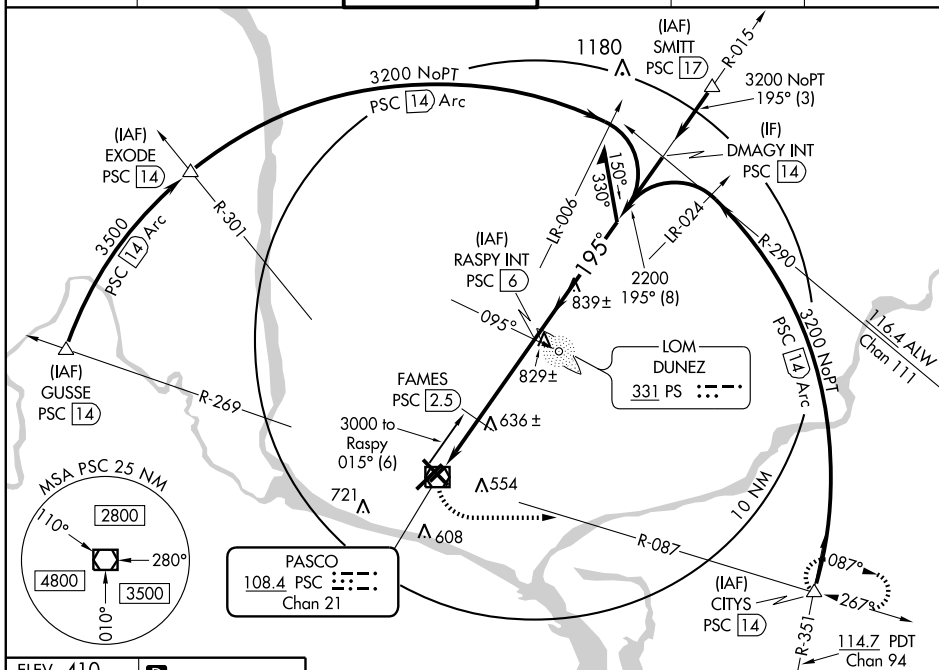
ATIS★
125.65

CHINOOK APP CON★
128.75 377.2

TRI-CITIES TOWER★
135.3 (CTAF) 323.

GND CON
121.8

CLNC DEL
120.0

UNICOM
122.95

LOC I-CLM

108.9

APP CRS

083°

Rwy Idg TDZE

6347 284

Apt Elev

291

ILS or LOC RWY 8

PORT ANGELES/ WILLIAM R. FAIRCHILD INTL (CLM)

✈

Circling NA south of Rwy 8-26.

⚠

DME required.

DME from TOU VORTAC. Simultaneous reception of I-CLM and TOU DME required.

If local altimeter setting not received, use Friday Harbor altimeter setting and increase all MDAs 100 feet. ILS procedure NA.

MALSR

MISSED APPROACH: Climb to 1000 then climbing left turn to 5400 via heading 030° and CVV R-247 to JIGEB/CVV 12.1 DME and hold, continue climb-in-hold to 5400.

ASOS 135.175	WHIDBEY APP CON★ 118.2 285.65	CLNC DEL 124.15	UNICOM 122.975 (CTAF) 0
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One Minute Holding Pattern		YUCSU TOU 29.6	HUTUK TOU 34	1000	5400	CVV R-247 117.2	JIGEB
4700		263°	083°	083°	2486	* LOC only	
GS 3.00° TCH 54		3700	3600	* 2700			
VGS and ILS glidepath not coincident.		4.4 NM	5.4 NM	6.6 NM			
CATEGORY	A	B	C	D			
S-ILS 8		486-1/2	202 (200-1/2)				
S-LOC 8	840-1/2	556 (600-1/2)	840-1 556 (600-1)	840-1 556 (600-1 1/4)			
CIRCLING	840-1	549 (600-1)	840-1 549 (600-1 1/2)	860-2 569 (600-2)			

NW-1. 08 APR 2010 to 06 MAY 2010

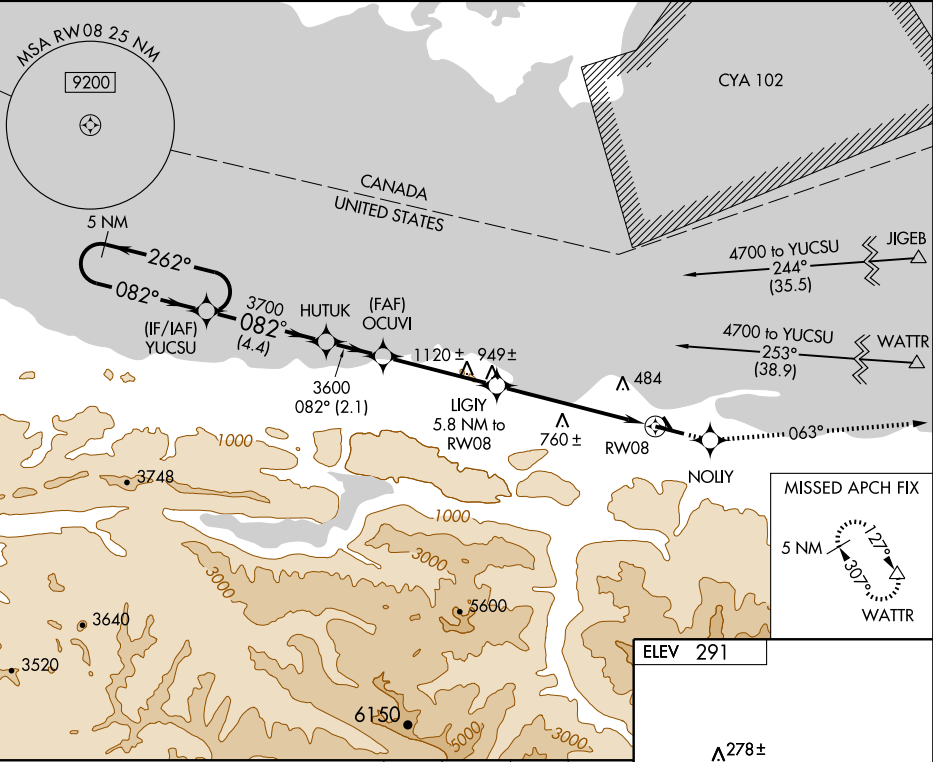
WAAS CH 77703 W08A	APP CRS 082°	Rwy Idg TDZE Apt Elev	6347 284 291
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⚠ Circling NA south of Rwy 8-26. DME/DME RNP- 0.3 NA.
⚠ If local altimeter setting not received, use Friday Harbor altimeter setting and increase all DAs/MDAs 100 feet. VDP NA when using Friday Harbor altimeter setting.

MALSR

MISSED APPROACH: Climb to 5400 direct NOLLY and via 063° track to WATTR and hold, continue climb-in-hold to 5400.

ASOS 135.175	WHIDBEY APP CON * 118.2 285.65	CLNC DEL 124.15	UNICOM 122.975 (CTAF) 1
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5 NM Holding Pattern

YUCSU

HUTUK

OCUVI

LIGY 5.8 NM to RW08

5400

NOLLY

063° track

WATTR

* LNAV only

GS 3.00° TCH 54

VGSI and RNAV glidepath not coincident.

4.4 NM

2.1

4.2 NM

3 NM

2.8

CATEGORY	A	B	C	D
LPV DA	596-1/2 312 (400-1/2)			
LNAV MDA	1240-3/4 956 (1000-3/4)	1240-1 956 (1000-1)	1240-2 1/2 956 (1000-2 1/2)	
CIRCLING	1240-1 1/4 949 (1000-1 1/4)	1240-1 1/2 949 (1000-1 1/2)	1240-3 949 (1000-3)	

ELEV 291

5 NM

127°

307°

WATTR

278±

082° to RW08

2245 X 50

6347 X 150

TDZE 284

424±

26

355

LIRL Rwy 13-31

MIRL Rwy 8-26 **1**

REIL Rwy 26

NW-1. 08 APR 2010 to 06 MAY 2010

APP CRS
263°

Rwy Idg
4993

TDZE
282

Apt Elev
291

RNAV (GPS) RWY 26

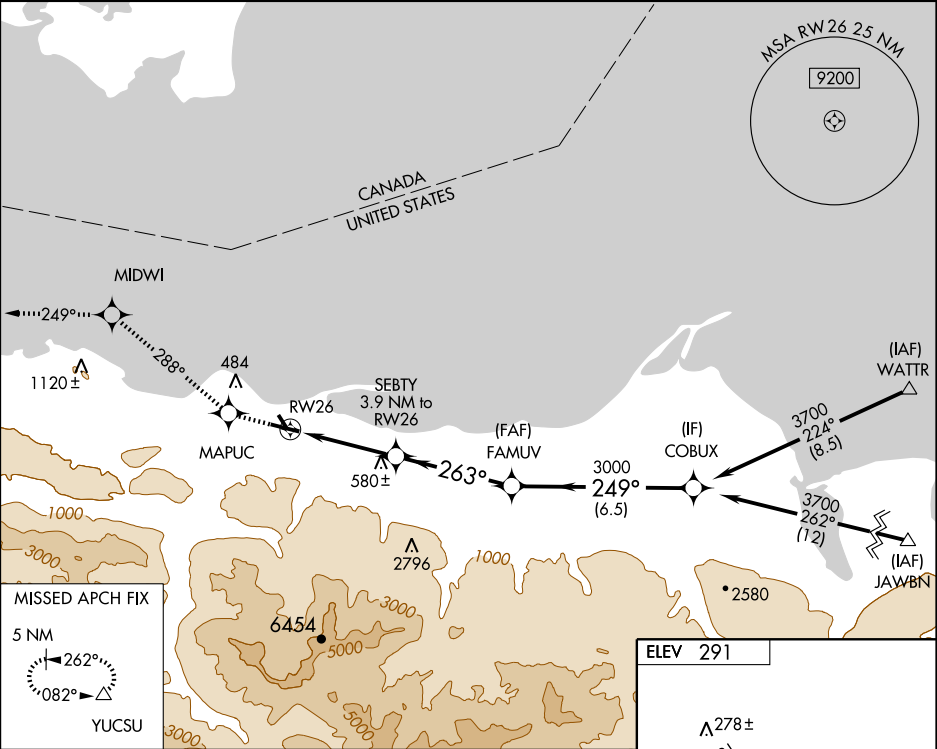
PORT ANGELES/ WILLIAM R. FAIRCHILD INTL (CLM)

⚠ Circling NA south of Rwy 8-26. DME/DME RNP- 0.3 NA.

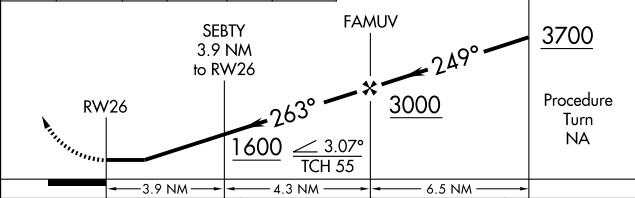
⚠ Visibility reduction by helicopters NA. When local altimeter setting not received, use Friday Harbor altimeter setting; increase all MDA 100 feet and visibility Cats B/C/D ½ mile.

MISSED APPROACH: Climb to 5400 direct MAPUC and via track 288° to MIDWI and via track 249° to YUCSU and hold.

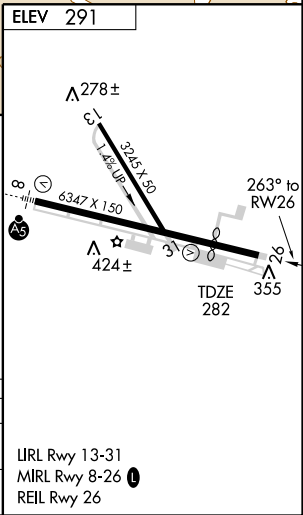
ASOS 135.175	WHIDBEY APP CON * 118.2 285.65	CLNC DEL 124.15	UNICOM 122.975 (CTAF) 1
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5400	MAPUC	trk 288°	MIDWI	trk 249°	YUCSU	VGSI and descent angles not coincident.
↑	✱		✱		△	



CATEGORY	A	B	C	D
LNAV MDA	940-1	658 (700-1)	940-1¾ 658 (700-1¾)	940-2 658 (700-1)
CIRCLING	940-1	649 (700-1)	940-1¾ 649 (700-1¾)	940-2 649 (700-2)



WATTR FIVE DEPARTURE (OBSTACLE)

PORT ANGELES/ WILLIAM R. FAIRCHILD INTL (CLM)
SL-886 (FAA) PORT ANGELES, WASHINGTON

NAS WHIDBEY DEP CON

118.2 285.65
SEATTLE RADIO
122.6
CTAF 122.975

VICTORIA	
113.7 YYJ	⋮⋮⋮
Chan 84	
N48°43.62' - W123°29.06'	
L-1, H-1	

TAKE-OFF OBSTACLE NOTES

Rwy 13: Multiple trees and pole beginning 1299' from DER, 32' left of centerline, up to 100' AGL/520' MSL.
Sign 76' from DER, 230' left of centerline, 5' AGL/276' MSL.

Hangar 1550' from DER, 457' left of centerline, 49' AGL/320' MSL.

OL on airport beacon 2023' from DER, 829' left of centerline, 74' AGL/345' MSL.

Multiple trees and pole beginning 614' from DER, 11' right of centerline, up to 100' AGL/599' MSL.

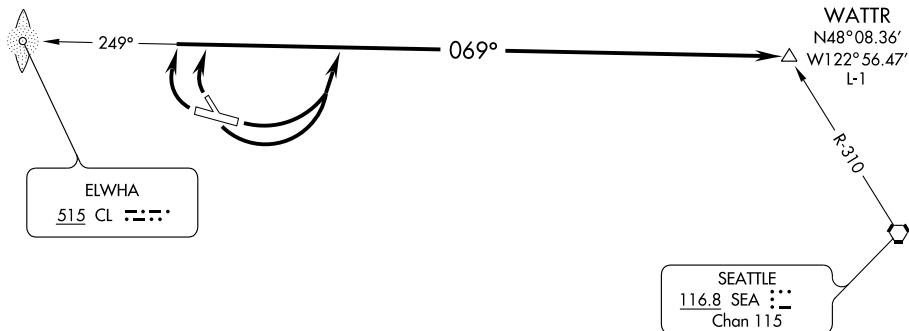
Rwy 26: Multiple trees beginning 2940' from DER, 747' left of centerline, up to 95' AGL/378' MSL.

Rwy 31: Multiple trees beginning 470' from DER, 39' left of centerline, up to 71' AGL/298' MSL.

Multiple trees beginning 640' from DER, 112' right of centerline, up to 63' AGL/290' MSL.

Rwy 8: Multiple trees and poles beginning 130' from DER, 261' left of centerline, up to 124' AGL/415' MSL.
Multiple trees and poles beginning 923' from DER, 111' right of centerline, up to 232' AGL/479' MSL.

Hangar 212' from DER, 523' right of centerline, 19' AGL/310' MSL.



TAKE-OFF MINIMUMS

Rwys 26, 31: Standard.

Rwy 13: Standard with minimum climb of 454' per NM to 1100.

Rwy 8: 300-1.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 8 and 13: Climbing left turn, thence....

TAKE-OFF RUNWAYS 26 and 31: Climbing right turn, thence....

....on 069° bearing from CL LOM to WATTR INT, maintain 5400.

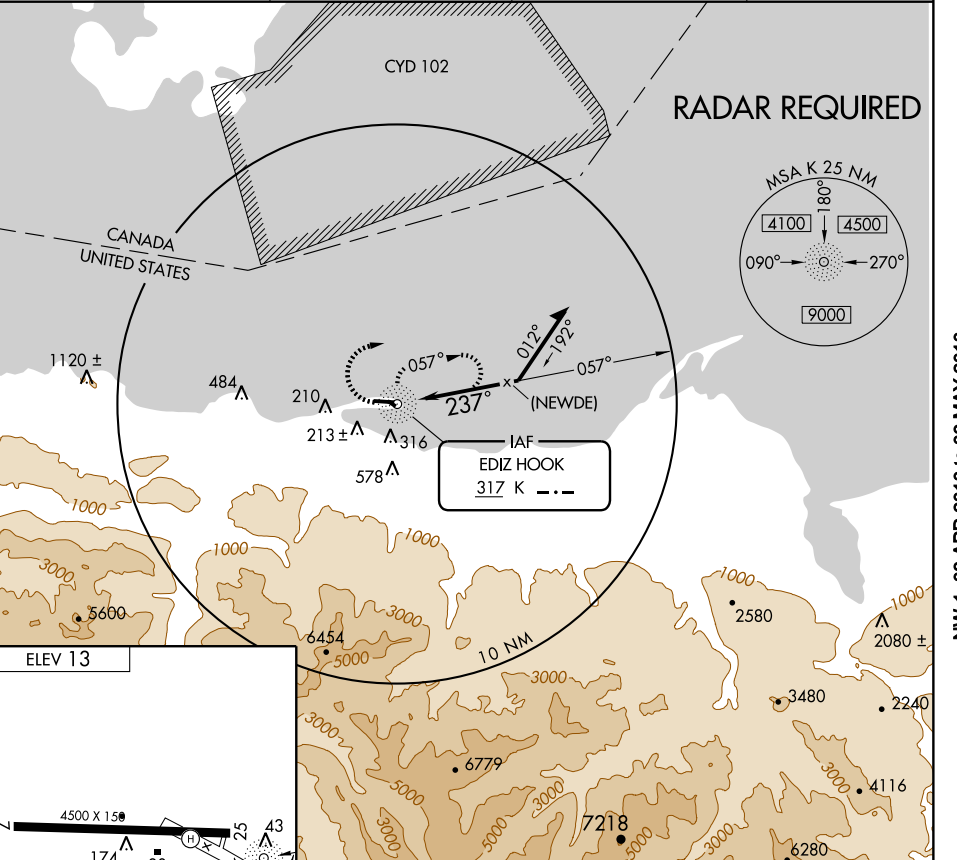
▼

NA

Prior permission required.

MISSED APPROACH: Climbing right turn to 1600 via bearing 057° from Ediz Hook NDB, then climbing left turn to 3000 direct Ediz Hook NDB and hold.

WHIDBEY APP CON 118.2 285.65	PORT ANGELES AIR 127.7 345.0	CLNC DEL 124.15	UNICOM 122.975 (CTAF)
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4500 X 150

174

80

25

43

237° to NDB

1600

3000

K 057°

K 317

NDB

057°

(NEWDE)

237°

1600

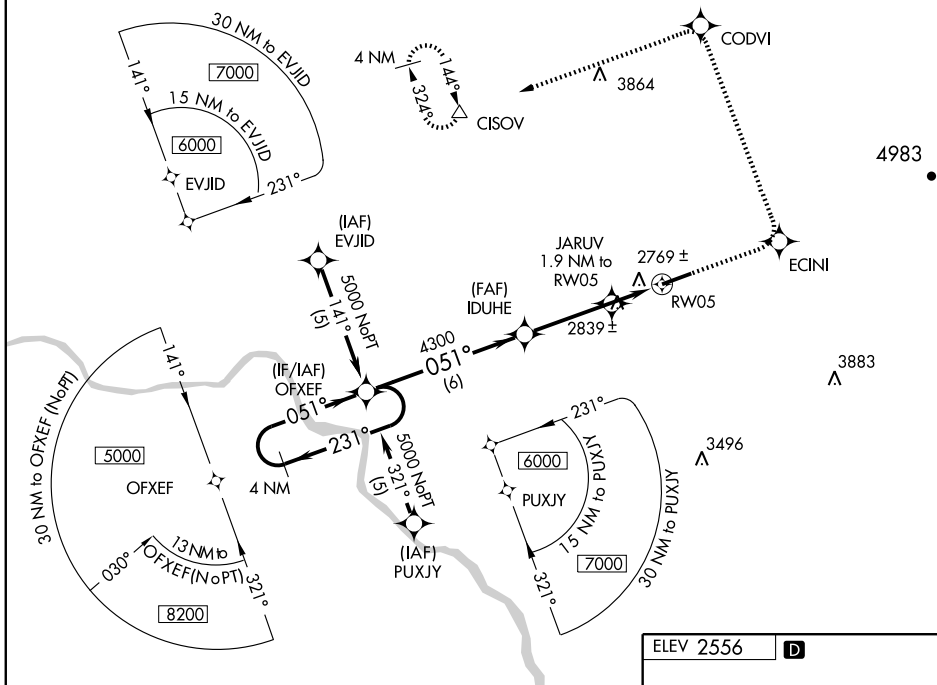
4 NM

CATEGORY	A	B	C	D
H-237°	540-¾ 527 (600-¾)	NA		

RNAV (GPS) RWY 5
PULLMAN/MOSCOW RGNL (PUW)

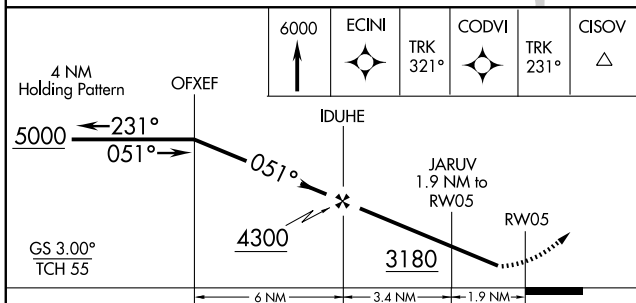
MISSED APPROACH: Climb to 6000 direct ECINI, and via 321° track to CODVI and via 231° track to CISOV and hold.

SEATTLE CENTER
123.95 282.3

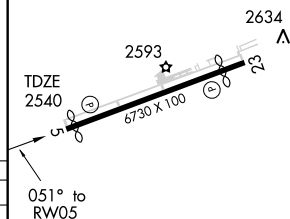
UNICOM
122.8 (CTAF) **L**

NW-1. 08 APR 2010 to 06 MAY 2010

ELEV 2556	D
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CATEGORY	A	B	C	D
LPV DA		2981-1½	441 (500-1½)	
RNAV/ VNAV DA		3177-2¼	637 (700-2¼)	
RNAV MDA	3100-1	560 (600-1)	3100-1½ 560 (600-1½)	3100-1¾ 560 (600-1¾)
CIRCLING		3220-2½	664 (700-2½)	

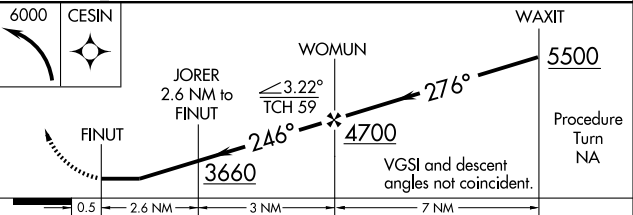
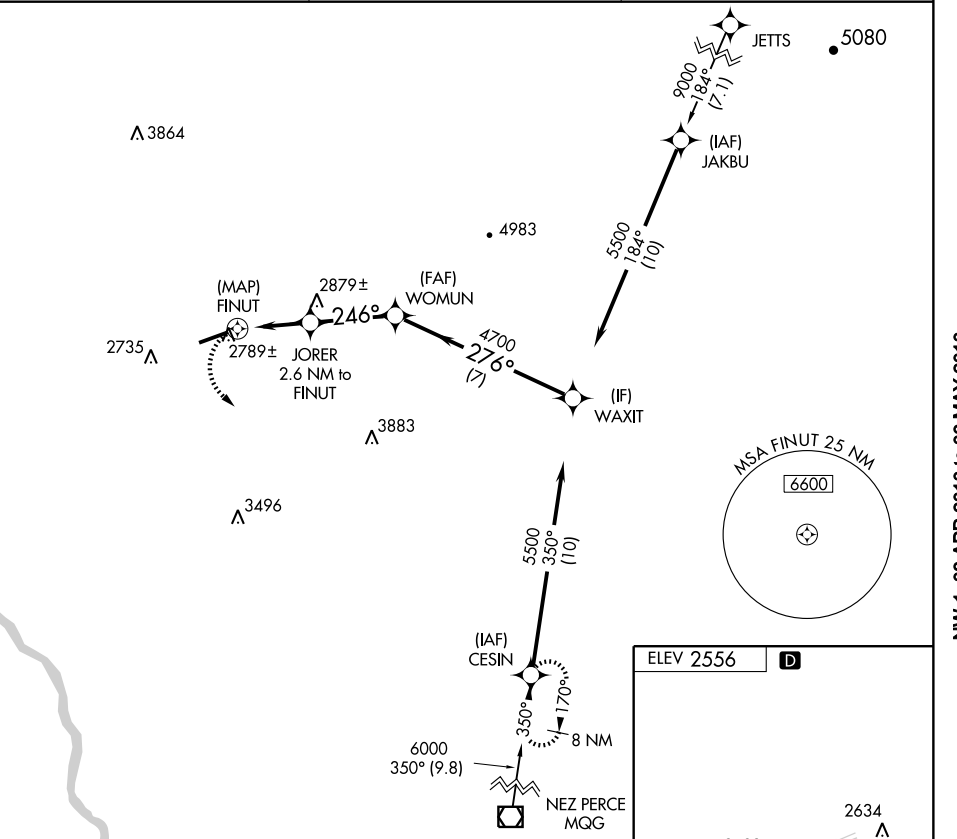


HIRL Rwy 5-23 **L**
REIL Rwy 5 and 23 **L**

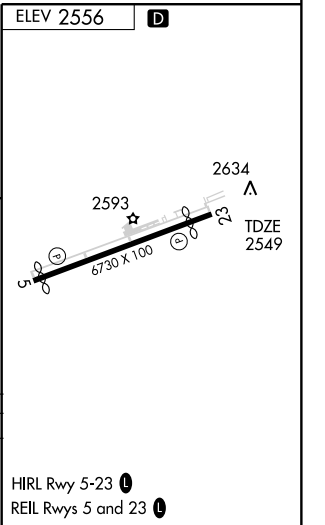
APP CRS	Rwy Idg	5240
246°	TDZE	2549
	Apt Elev	2556

<div><div><div></div></div><div>DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA.</div></div>	MISSED APPROACH: Climbing left turn to 6000 direct CESIN and hold.
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ASOS 135.675	SEATTLE CENTER 123.95 282.3	UNICOM 122.8 (CTAF) 0
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CATEGORY	A	B	C	D
LNAV MDA	3180-1	631 (700-1)	3180-1 ³ / ₄ 631 (700-1 ³ / ₄)	3180-2 631 (700-2)
CIRCLING	3220-1	664 (700-1)	3220-1 ³ / ₄ 664 (700-1 ³ / ₄)	3220-2 664 (700-2)



VOR RWY 5

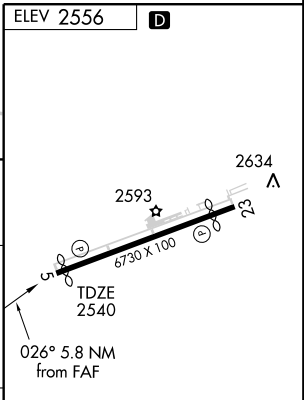
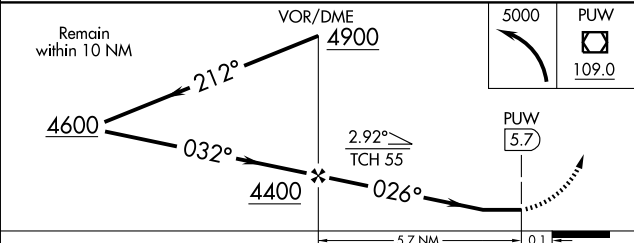
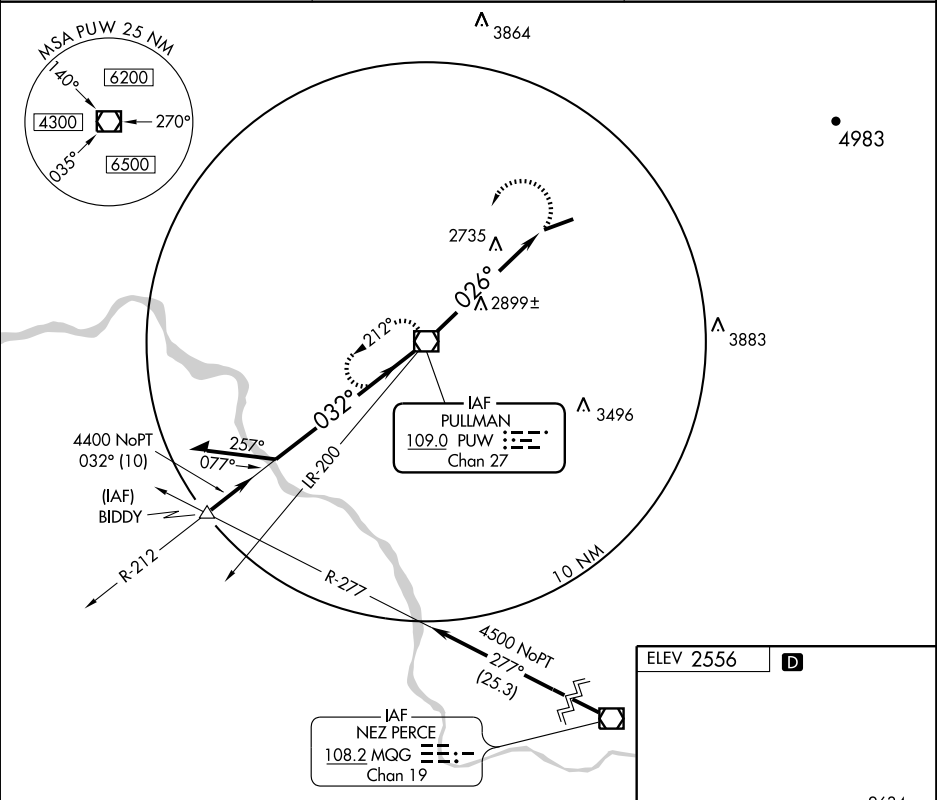
PULLMAN/MOSCOW RGNL (PUW)

VOR/DME PUW	APP CRS	Rwy Idg	6200
109.0	026°	TDZE	2540
Chan 27		Apt Elev	2556

When VGSI inoperative, circling Rwy 5 NA at night.
Visibility reduction by helicopters NA.

MISSED APPROACH: Climbing left turn to 5000 direct PUW
VOR/DME and hold.

ASOS 135.675	SEATTLE CENTER 123.95 282.3	UNICOM 122.8 (CTAF) 0
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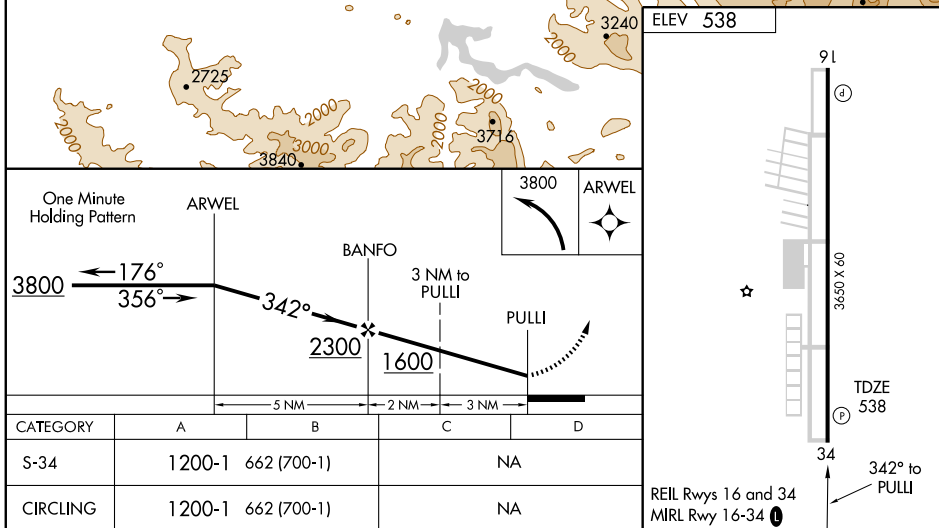
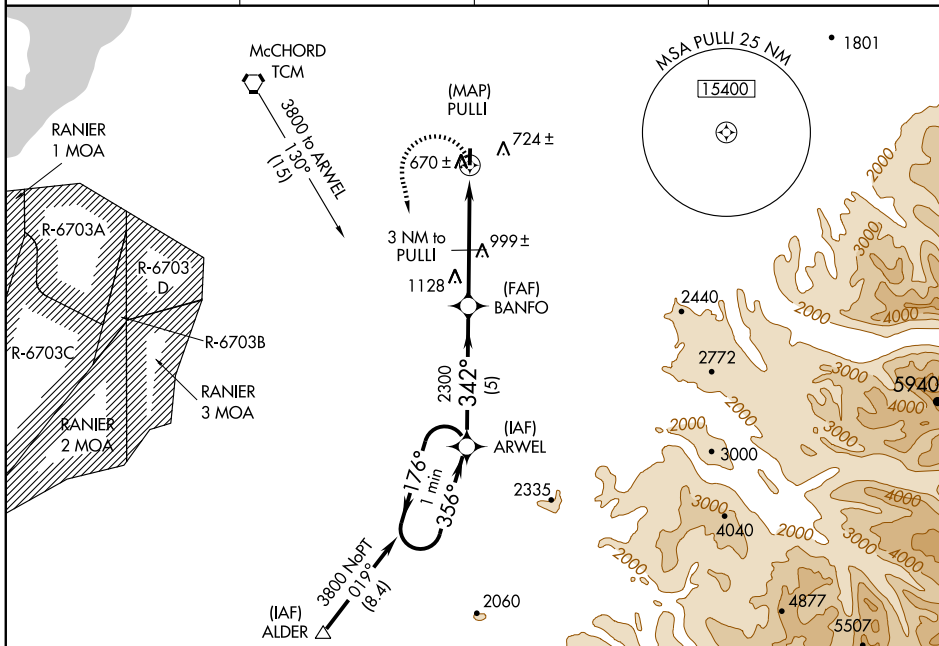
CATEGORY	A	B	C	D	HIRL Rwy 5-23 0	REIL Rws 5 and 23 0	FAF to MAP 5.7 NM
S-5	3120-1	580 (600-1)	3120-1½ 580 (600-1½)	3120-1¾ 580 (600-1¾)			
CIRCLING	3220-1	664 (700-1)	3220-1¾ 664 (700-1¾)	3220-2 664 (700-2)	Knots	60 90 120 150 180	Min:Sec 5:42 3:48 2:51 2:17 1:54

APP CRS **342°**
 Rwy Idg **3650**
 TDZE **538**
 Apt Elev **538**

GPS RWY 34

PUYALLUP/PIERCE COUNTY-THUN FIELD (PLU)

NA		MISSED APPROACH: Climbing left turn to 3800 direct ARWEL WP and hold.	
AWOS-3 128.575	SEATTLE APP CON 126.5 377.15	CLNC DEL 121.85	UNICOM 122.7 (CTAF)



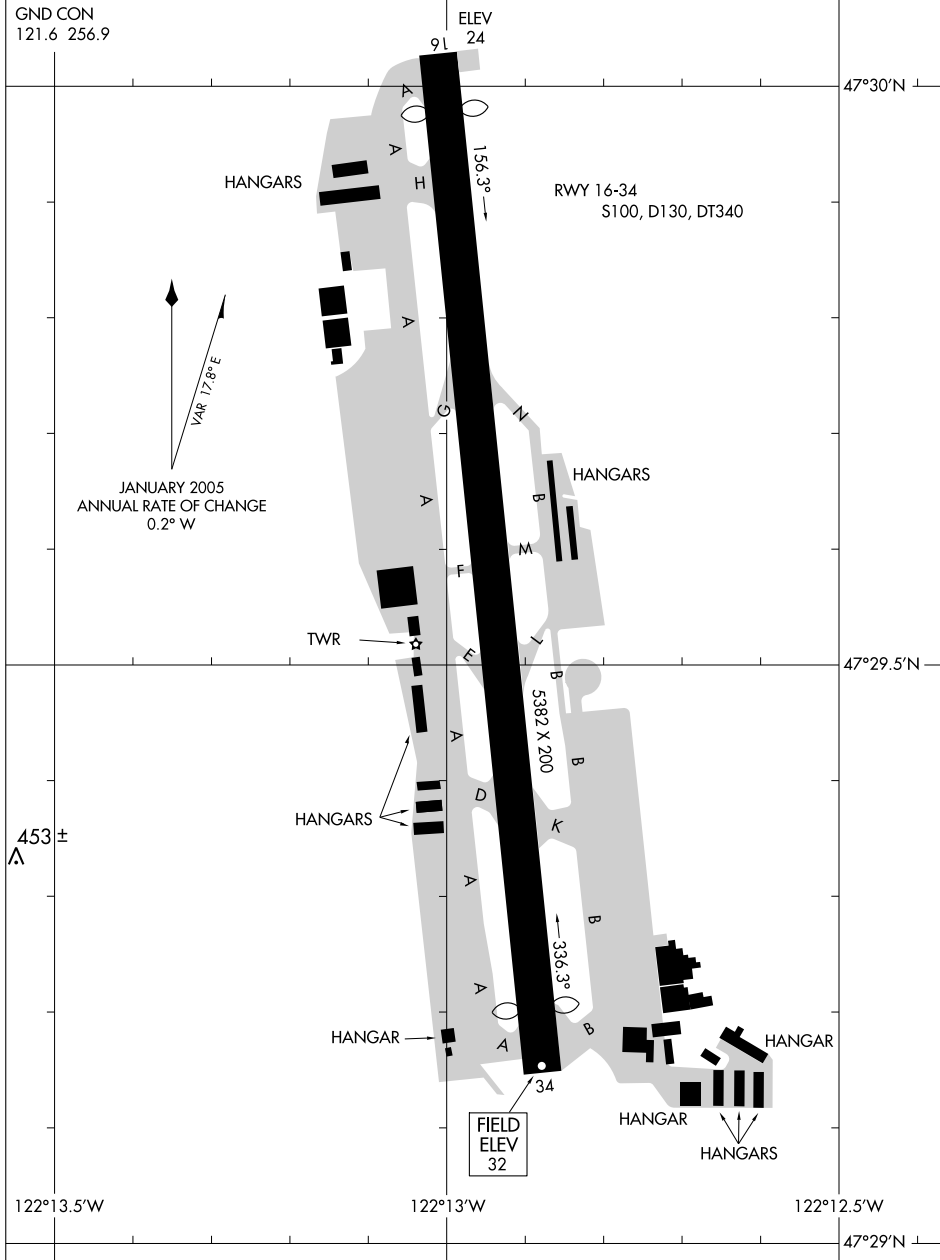
AIRPORT DIAGRAM

AL-5396 (FAA)

RENTON MUNI (RNT)
RENTON, WASHINGTON

ATIS
126.95
RENTON TOWER ★
124.7 256.9
GND CON
121.6 256.9

CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

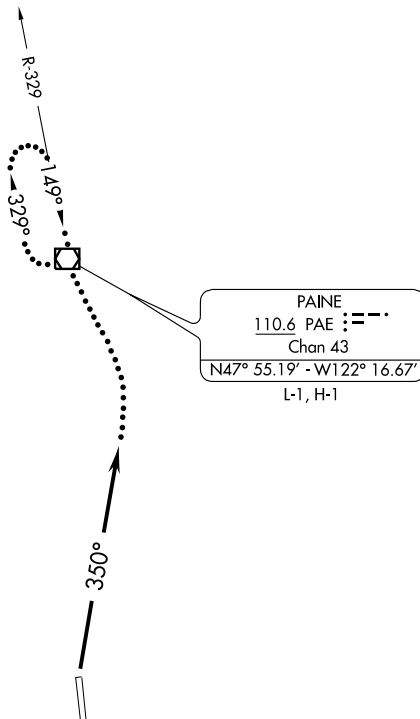


BELLEVUE TWO DEPARTURE

SL-5396 (FAA)

RENTON MUNI (RNT)
RENTON, WASHINGTON

ATIS 126.95
GND CON
121.6 256.9
RENTON TOWER ★
124.7 (CTAF) 256.9
SEATTLE DEP CON
119.2 284.7



NOTE: RADAR required.

TAKE-OFF MINIMUMS

Rwy 16: NA- ATC.

Rwy 34: Standard with minimum climb of 315' per NM to 800.

TAKE-OFF OBSTACLE NOTES

Rwy 34: Trees and terrain beginning 1.6 NM from DER, 104' left of centerline, up to 100' AGL/485' MSL, wood piling, trees and terrain beginning 75' from DER, 7' right of centerline, up to 100' AGL/426' MSL.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 34: Climb heading 350°, maintain 3000, expect radar vectors, expect filed altitude within 5 minutes after departure.

LOST COMMUNICATIONS: If no contact with Seattle Departure Control within 3 minutes after departure, climbing left turn direct PAE VOR/DME, continue climb-in PAE VOR/DME holding pattern to cross PAE VOR/DME at or above MEA/MCA for direction of flight before proceeding on course.

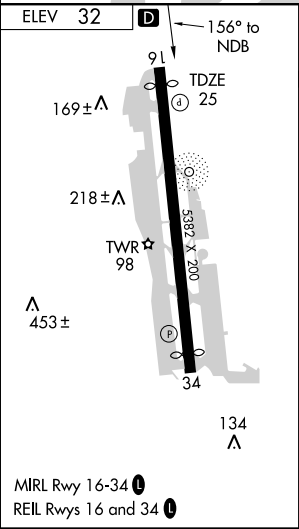
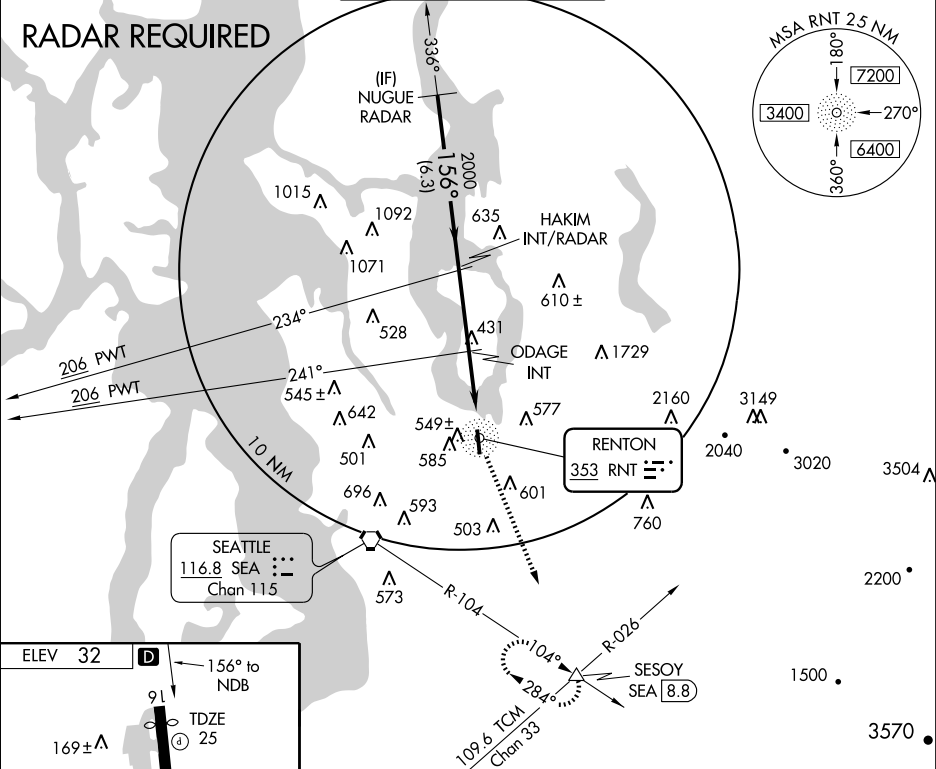
▼

▲

Circling NA W of Rwy 16-34. Visibility reduction by helicopters NA. When local altimeter setting not received, use Seattle-Tacoma Intl altimeter setting.

MISSED APPROACH: Climb to 5000 via 141° bearing from RNT NDB and SEA VORTAC R-104 to SESOY INT and hold, continue climb-in-hold to 5000.

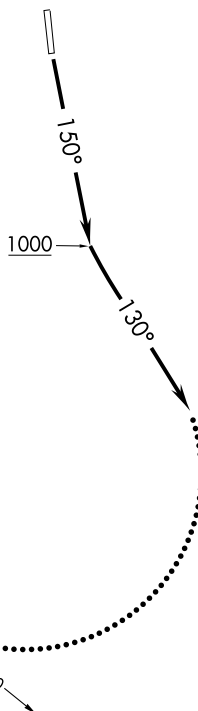
ATIS 126.95	SEATTLE APP CON 119.2 284.7	RENTON TOWER ★ 124.7 (CTAF) 256.9	GND CON 121.6 256.9	UNICOM 122.95
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	NUGUE RADAR	HAKIM INT/RADAR	ODAGE INT	5000	SEA R-104 116.8	SESOY
	2000	2000	1000	↑	RNT 141°	NDB
	156°	3.16°	TCH 50			
	6.3 NM	2.9 NM	2.8 NM	0.3		
CATEGORY	A	B	C	D		
S-16	1000-1¼ 975 (1000-1¼)	1000-1½ 975 (1000-1½)	1000-3	975 (1000-3)		
CIRCLING	1000-1¼ 968 (1000-1¼)	1000-1½ 968 (1000-1½)	1000-3	968 (1000-3)		
ODAGE FIX MINIMUMS (DUAL ADF RECEIVERS REQUIRED)						
S-16	900-1 875 (900-1)	900-1¼ 875 (900-1¼)	900-2½ 875 (900-2½)	900-2¾ 875 (900-2¾)		
CIRCLING	900-1 868 (900-1)	900-1¼ 868 (900-1¼)	920-2¾ 888 (900-2¾)	920-3 888 (900-3)		

ATIS 126.95
 GND CON
 121.6 256.9
 RENTON TOWER ★
 124.7 (CTAF) 256.9
 SEATTLE DEP CON
 119.2 284.7

SEATTLE
 116.8 SEA
 Chan 115
 N47°26.12' - W122°18.58'
 L-1, H-1



NOTE: RADAR required.

TAKE-OFF MINIMUMS

Rwy 16: Standard with a minimum climb of 405' per NM to 800.
 Rwy 34: NA- ATC.

TAKE-OFF OBSTACLE NOTES

Rwy 16: Trees, towers, lights and blast shield beginning 186' from DER, 4' left of centerline, up to 100' AGL/574' MSL. Trees, lights and signs beginning 40' from DER, 54' right of centerline, up to 100' AGL/297' MSL.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 16: Climb heading 150° to 1000, then climbing left turn heading 130°, expect radar vectors, maintain 3000, expect filed altitude within 5 minutes after departure.

LOST COMMUNICATIONS: If no contact with Seattle Departure Control within 3 minutes after departure, climbing right turn direct SEA VORTAC, continue climb-in SEA VORTAC holding pattern to cross SEA VORTAC at or above MEA/MCA for direction of flight before proceeding on course.

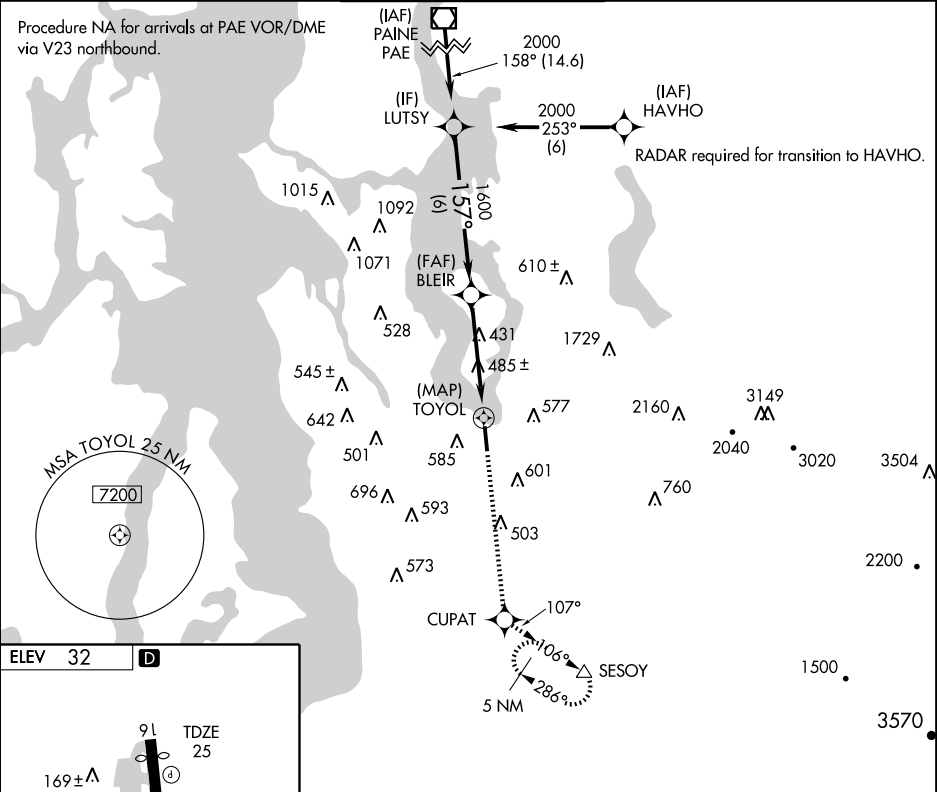
▼

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Circling NA W of Rwy 16-34. DME/DME RNP-0.3 NA.
Visibility reduction by helicopters NA. When local altimeter setting not received, use Seattle-Tacoma Intl altimeter setting.

MISSED APPROACH: Climb to 5000 direct CUPAT and via track 107° to SESOY and hold, continue climb-in-hold to 5000.

ATIS 126.95	SEATTLE APP CON 119.2 284.7	RENTON TOWER★ 124.7 (CTAF) 256.9	GND CON 121.6 256.9	UNICOM 122.95
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<div>Procedure Turn NA</div> <div><div>5000</div><div>CUPAT</div><div>trk 107°</div><div>SESOY</div></div> <div><div>LUTSY</div><div>2000</div><div>BLEIR</div><div>157°</div><div>1600</div><div>1.8 NM to TOYOL</div><div>TOYOL</div><div>3.04°</div><div>TCH 50</div><div>6 NM</div><div>2.6 NM</div><div>1.8</div><div>0.3</div></div>				
CATEGORY	A	B	C	D
LNAV MDA	760-1	735 (800-1)	760-2 735 (800-2)	760-2½ 735 (800-2½)
CIRCLING	880-1 848 (900-1)	880-1½ 848 (900-1½)	920-2¾ 888 (900-2¾)	920-3 888 (900-3)

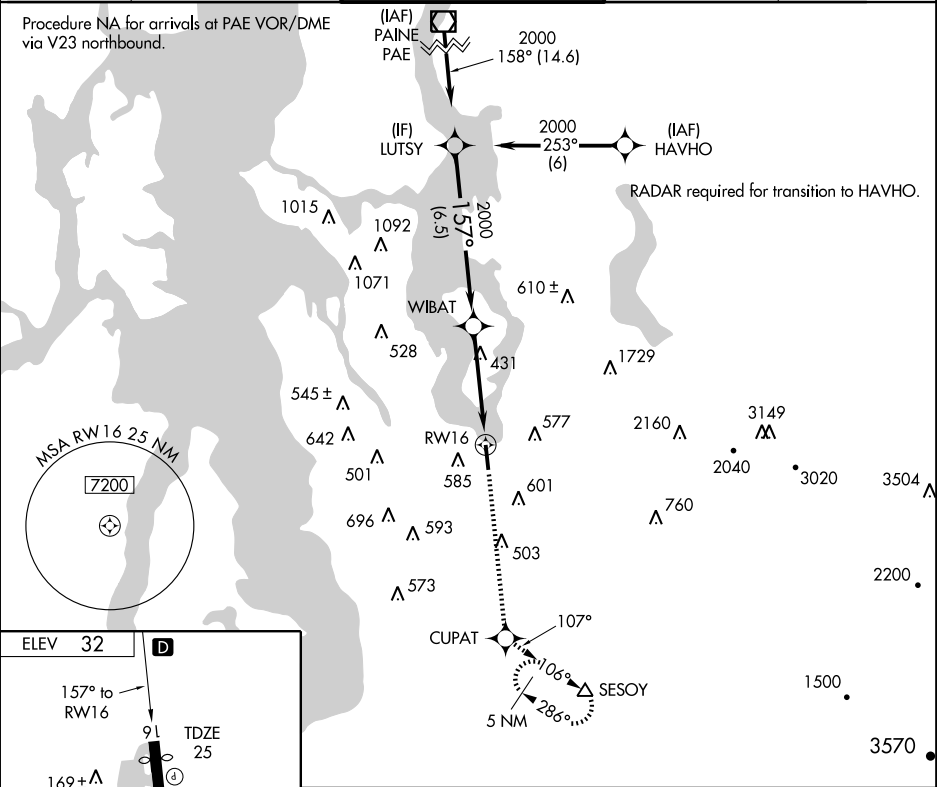
▼

⚠

Circling NA W of Rwy 16-34. DME/DME RNP- 0.3 NA. When local altimeter setting not received, use Seattle-Tacoma Intl altimeter setting. Circling requires descent on GS to CMDA.

MISSED APPROACH: Climb to 5000 direct CUPAT and via track 107° to SESOY and hold, continue climb-in-hold to 5000.

ATIS 126.95	SEATTLE APP CON 119.2 284.7	RENTON TOWER★ 124.7 (CTAF) 256.9	GND CON 121.6 256.9	UNICOM 122.95
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VGSI and RNAV glidepath not coincident.			
<div><div>LUTSY</div><div>Procedure Turn NA</div><div>2000</div><div>GS 4.20° TCH 50</div></div> <div><div>WIBAT</div><div>2000</div><div>157°</div><div>2000</div><div>6.5 NM</div><div>4.3 NM</div><div>RW16</div></div>			
CATEGORY	A	B	C
LPV DA	542-1¼	517 (600-1¼)	NA
CIRCLING	880-1¼	848 (900-1¼)	NA

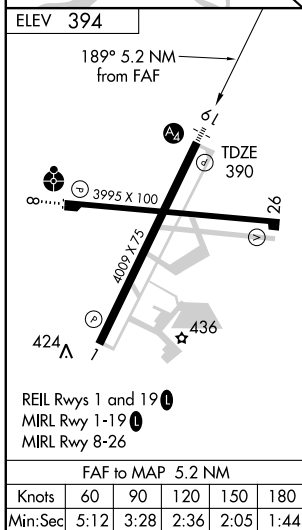
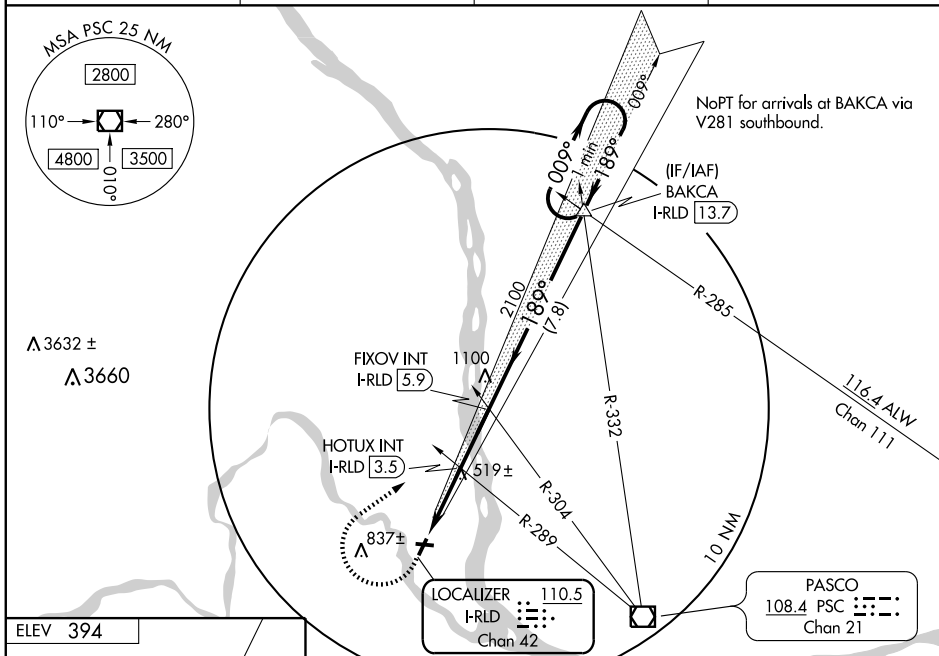
LOC/DME I-RLD 110.5 Chan 42	APP CRS 189°	Rwy Idg TDZE Apt Elev	4009 390 394
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LOC RWY 19

RICHLAND (RLD)

<p>NA</p> <p>Visibility reduction by helicopters NA. VDP NA when using Pasco altimeter setting. When local altimeter setting not received, use Pasco altimeter setting and increase all MDA 40 feet. Inoperative table does not apply to S-19 all Cats, and HOTUX fix minimums S-19 Cat C.</p>	<p>MALS</p> <p></p>	<p>MISSED APPROACH: Climbing right turn to 4000 via heading 038° and I-RLD NE course to BAKCA INT/I-RLD 13.7 DME and hold.</p>
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AWOS-3 132.675	CHINOOK APP CON ★ 128.75 377.2	CLNC DEL 122.4	UNICOM 122.7 (CTAF)
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	4000	I-RLD NE Crs	BAKCA	BAKCA I-RLD 13.7	One Minute Holding Pattern
	038°				
		HOTUX INT I-RLD 3.5			
		I-RLD 0.7	I-RLD 1.9	3.05° TCH 45	
		1.2 NM	1.6 NM	2.4 NM	7.8 NM
CATEGORY	A	B	C	D	
S-19	1320-1¼ 930 (1000-1¼)		1320-2¾ 930 (1000-2¾)	1320-3 930 (1000-3)	
CIRCLING	1320-1¼ 926 (1000-1¼)		1320-2¾ 926 (1000-2¾)	1320-3 926 (1000-3)	
HOTUX FIX MINIMUMS					
S-19	800-¾ 410 (500-¾)		800-1¼ 410 (500-1¼)	1100-2¼ 710 (800-2¼)	
CIRCLING	980-1 586 (600-1)	1000-1 606 (700-1)	1000-1¾ 606 (700-1¾)	1140-2½ 746 (800-2½)	

APP CRS	Rwy Idg	4009
189°	TDZE	390
	Apt Elev	394

RNAV (GPS) RWY 19

RICHLAND (RLD)

T	DME/DME-RNP-0.3 NA.
A	Inoperative table does not apply to Cat. C.

MALS



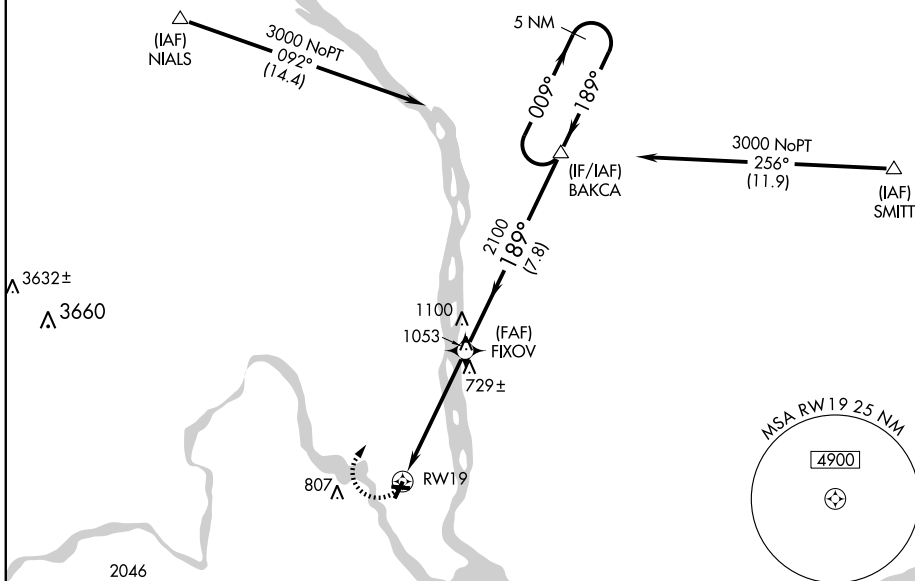
MISSED APPROACH: Climbing right turn to 3000 direct BAKCA and hold.

AWOS-3
132,675

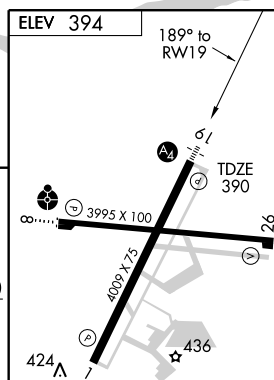
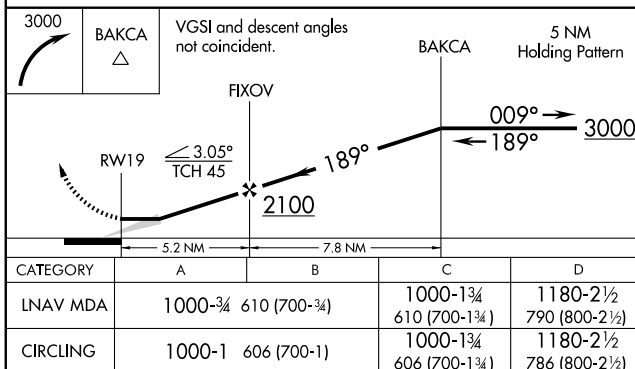
CHINOOK APP CON★
128.75 377.2

CLNC DEL
122.4UNICOM
122.7 (CTAF) **L**

Procedure NA for arrivals at NIALS via V187 northwest bound, and arrivals at SMITT via V204 northbound.



NW-1. 08 APR 2010 to 06 MAY 2010



REIL Rwy 1 and 19 **L**
MIRL Rwy 1-19 **L**
MIRL Rwy 8-26

WAAS Chan 50299 W26A	APP CRS 259°	Rwy Idg 3995 TDZE 389 Apt Elev 394
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RNAV (GPS) RWY 26

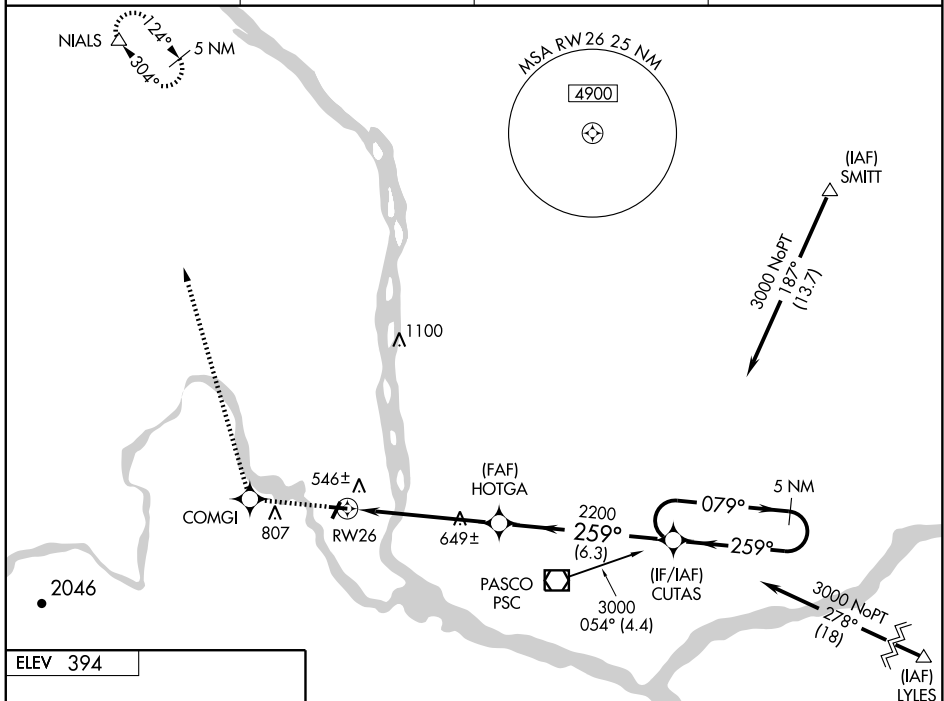
RICHLAND (RLD)



DME/DME RNP-0,3 NA. Baro-VNAV NA.

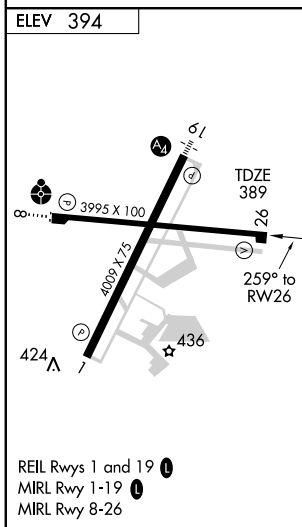
MISSED APPROACH: Climb to 3500 direct COMGI and via 327° track to NIALS and hold.

AWOS-3 132.675	CHINOOK APP CON ★ 128.75 377.2	CLNC DEL 122.4	UNICOM 122.7 (CTAF) 0
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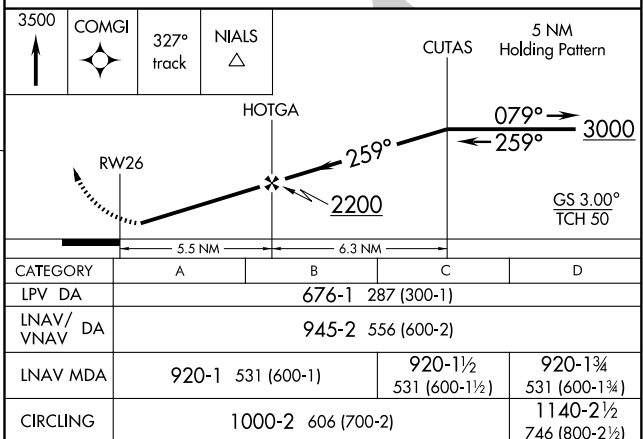


NW-1. 08 APR 2010 to 06 MAY 2010

ELEV	394
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Procedure NA for arrivals at PSC VOR/DME via V187 southwest bound.

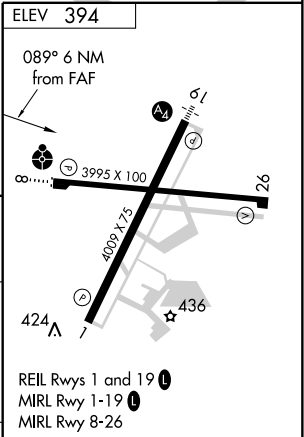
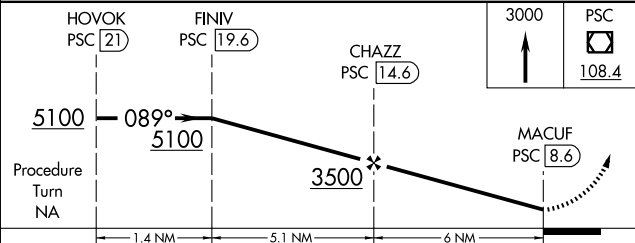
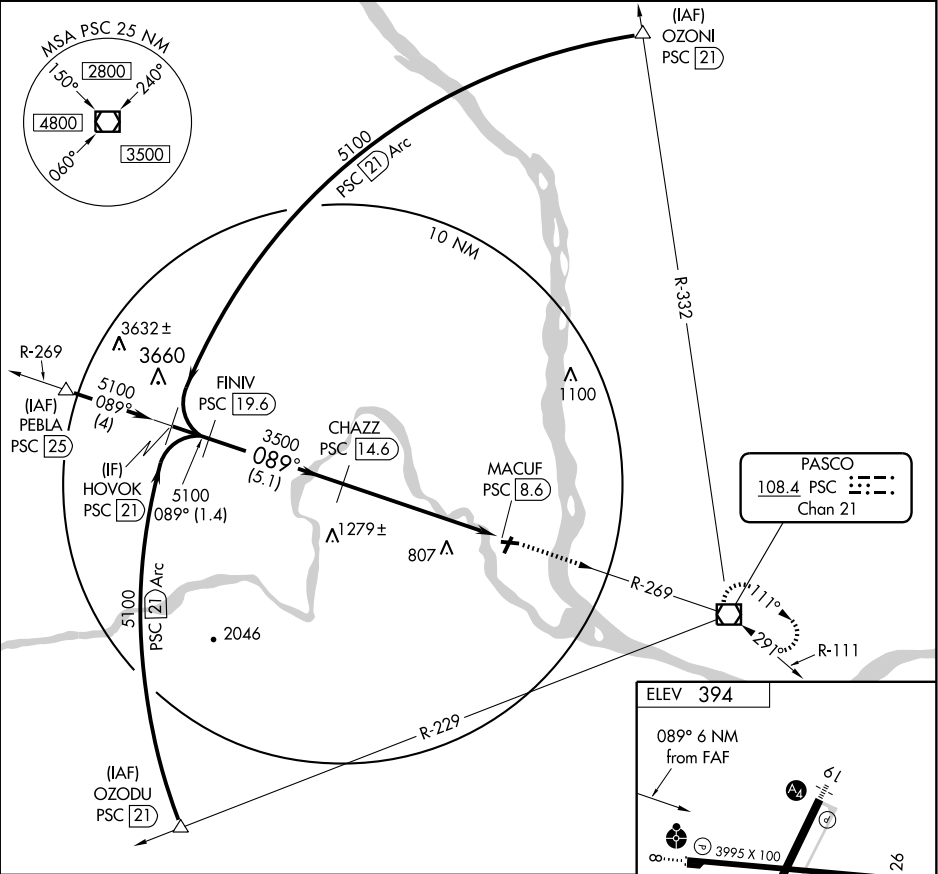


VOR/DME-A
RICHLAND (RLD)

VOR/DME PSC 108.4 Chan 21	APP CRS 089°	Rwy Idg TDZE Apt Elev	N/A N/A 394
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MISSED APPROACH: Climb to 3000 direct PSC VOR/DME and hold.

AWOS-3 132.675	CHINOOK APP CON ★ 128.75 377.2	CLNC DEL 122.4	UNICOM 122.7 (CTAF) 0
--------------------------	--	--------------------------	---------------------------------



CATEGORY	A	B	C	D	Knots	60	90	120	150	180
CIRCLING	1280-1¼	886 (900-1¼)	1280-2¾ 886 (900-2¾)	1280-3 886 (900-3)	Min:Sec					

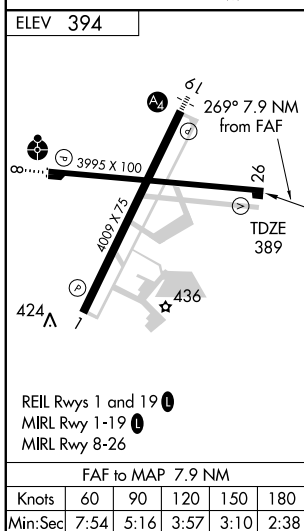
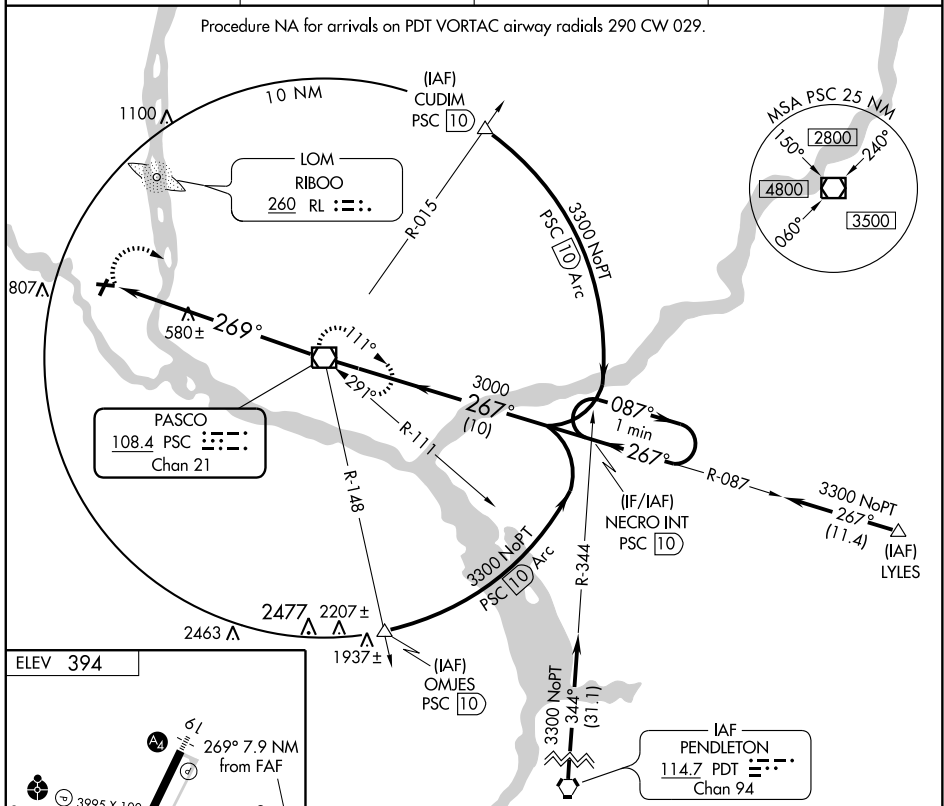
VOR RWY 26

RICHLAND (RLD)

VOR/DME PSC 108.4 Chan 21	APP CRS 269°	Rwy Idg TDZE Apt Elev 3995 389 394
--	------------------------	--

MISSED APPROACH: Climbing right turn to 3000 direct PSC VOR/DME and hold.

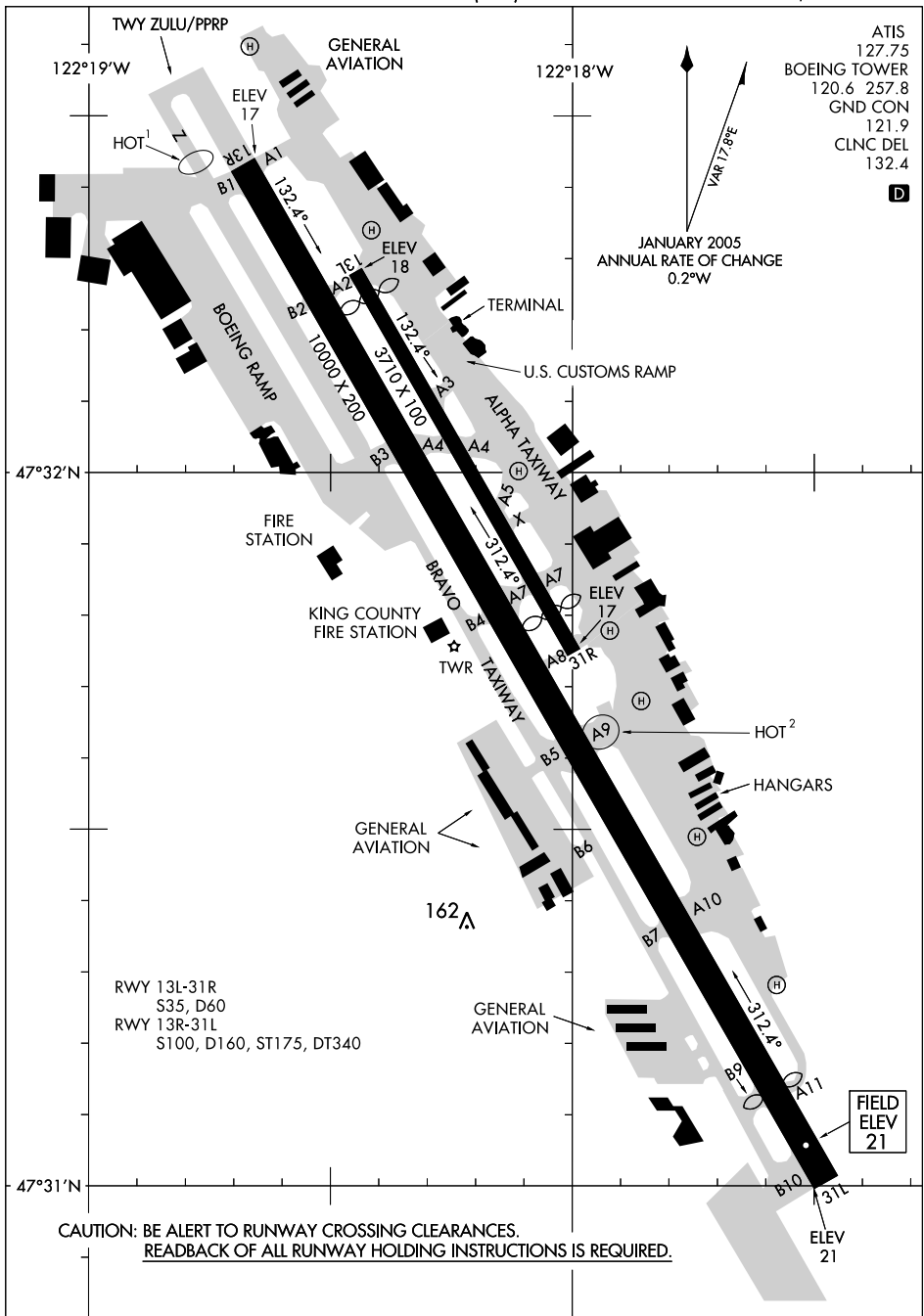
AWOS-3 132.675	CHINOOK APP CON ★ 128.75 377.2	CLNC DEL 122.4	UNICOM 122.7 (CTAF) 0
--------------------------	--	--------------------------	---------------------------------



3000	PSC	NECRO INT	One Minute Holding Pattern	
108.4	108.4	PSC 10		
VOR/DME				
PSC 7.9	≤ 3.05° TCH 50	267°	087° → 3300	
7.9 NM	10 NM			
CATEGORY	A	B	C	D
S-26	1000-1	611 (700-1)	1000-1¾ 611 (700-1¾)	1000-2 611 (700-2)
CIRCLING	1000-1	606 (700-1)	1000-1¾ 606 (700-1¾)	1140-2½ 746 (800-2½)

AIRPORT DIAGRAM

SEATTLE/FIELD COUNTY/KING COUNTY INTL (BFI)
AL-384 (FAA) SEATTLE, WASHINGTON

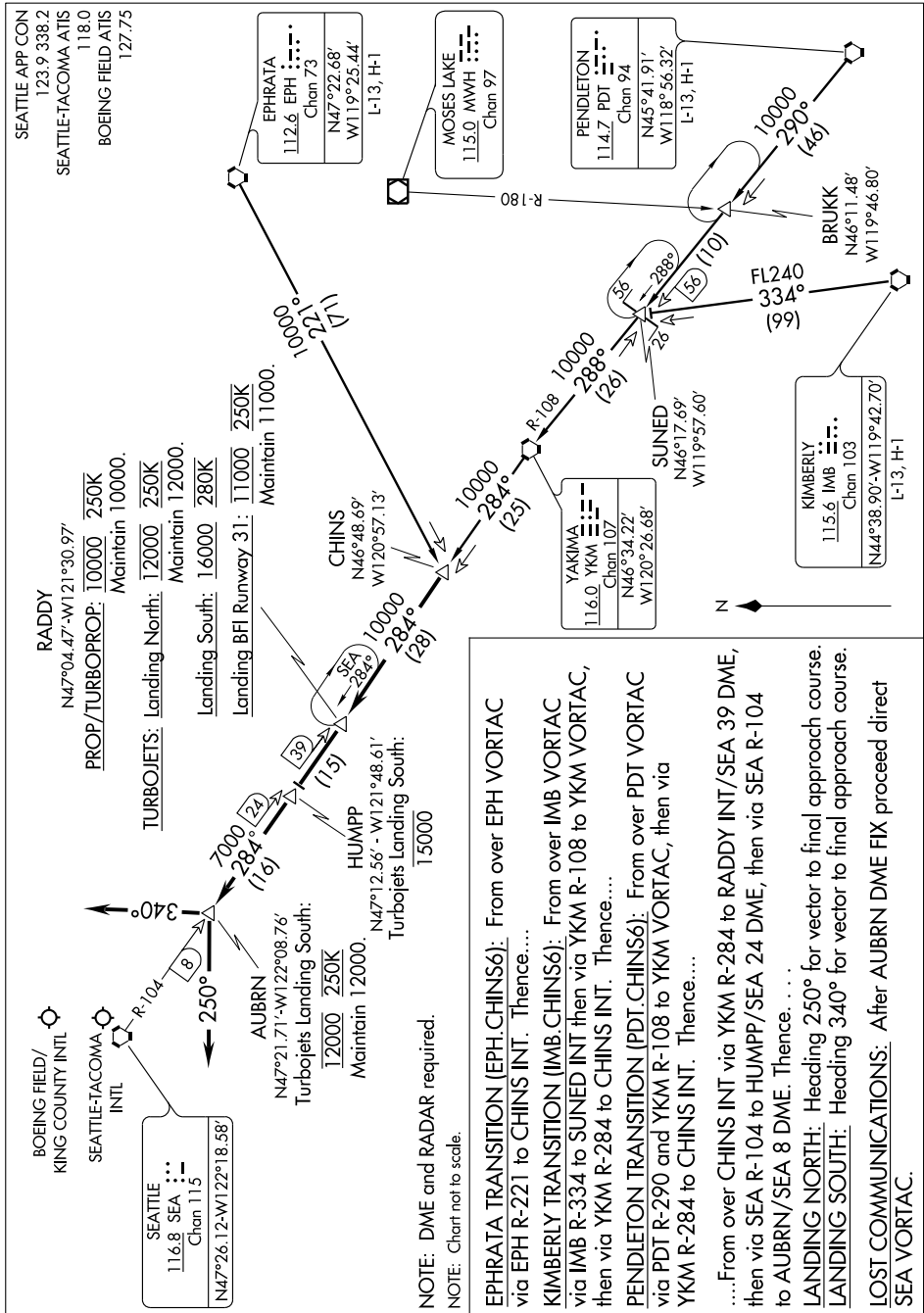


NW-1, 08 APR 2010 to 06 MAY 2010

CHINS SIX ARRIVAL

ST-582 (FAA)

SEATTLE, WASHINGTON



NW-1. 08 APR 2010 to 06 MAY 2010

SEATTLE APP CON

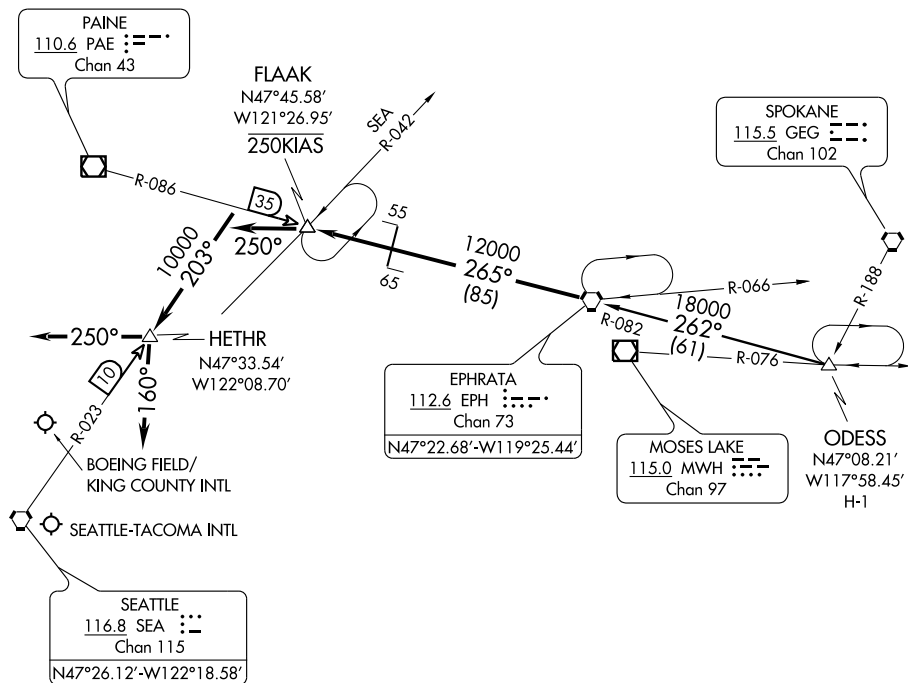
123.9 338.2

SEATTLE-TACOMA ATIS

118.0

BOEING FIELD ATIS

127.75



NOTE: DME and RADAR required.

ODESS TRANSITION (ODESS.EPH6): From over ODESS INT via EPH R-082 to EPH VORTAC. Thence....

....From over EPH VORTAC via EPH R-265 and PAE R-086 to FLAAK INT. Then via heading 250° to intercept the SEA R-023, then via SEA R-023 to HETHR DME Fix, thence....

LANDING NORTH: Heading 160° for vectors to final approach course;

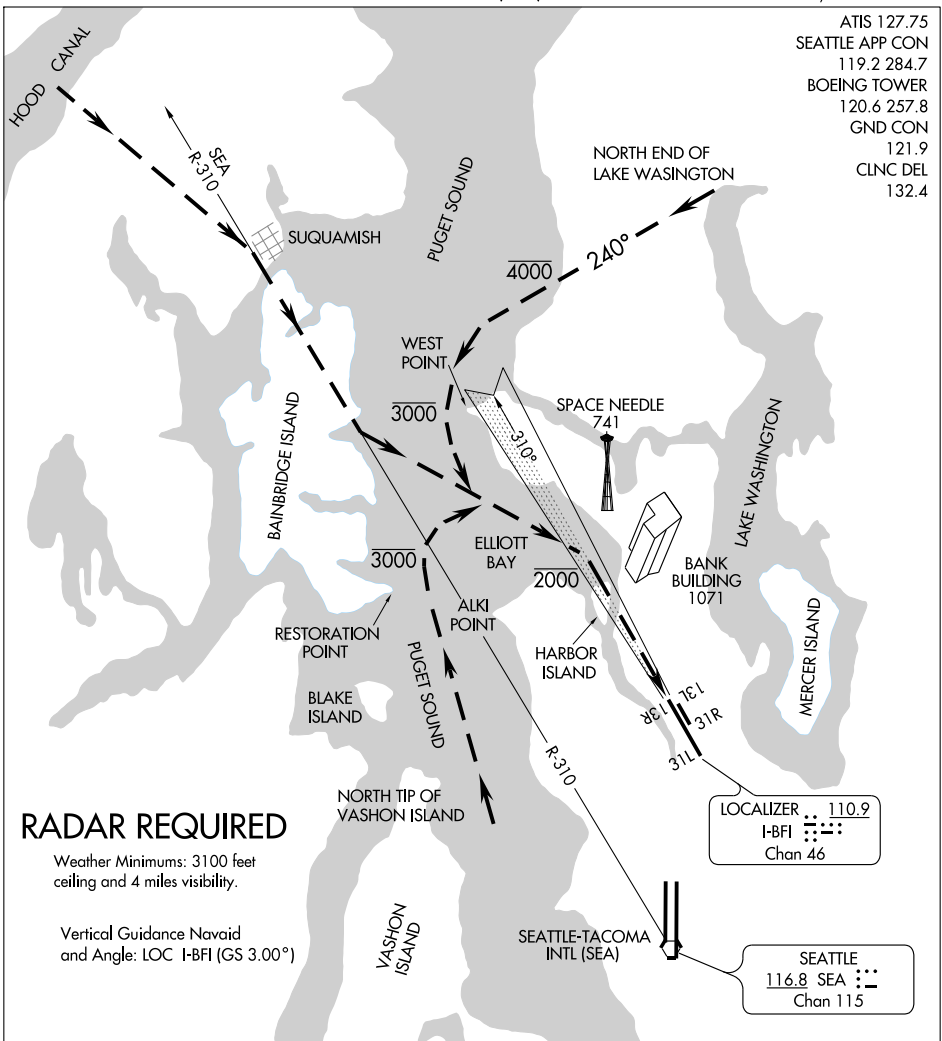
LANDING SOUTH: Heading 250° for vectors to final approach course.

LOST COMMUNICATIONS: From over HETHR DME proceed direct SEA VORTAC.

ST-582 (FAA)

SEATTLE, WASHINGTON





NM	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
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HARBOR VISUAL APPROACH RWY 13R

Expect radar vectors from the Northwest, over the Hood Canal on the SEA R-310; from the North and Northeast, to the north end of Lake Washington; from the Southwest, South and Southeast, to Puget Sound abeam the north tip of Vashon Island. When cleared for the Harbor Visual Approach Runway 13R, proceed via the depicted routes over the middle of Puget Sound and Elliott Bay to Harbor Island and complete a straight in visual approach to Boeing Field/King County Intl Airport (BFI). Adherence to the recommended altitudes is strongly recommended to reduce the incidence of TCAS alarms. Visual approaches to Seattle-Tacoma Intl Airport (SEA) may be conducted simultaneously through Elliott Bay. It is essential that all aircraft remain in the center of Elliot Bay for noise abatement.

LOC/DME I-BFI	APP CRS	Rwy Idg	9120
110.9	130°	TDZE	18
Chan 46		Apt Elev	21

ILS RWY 13R

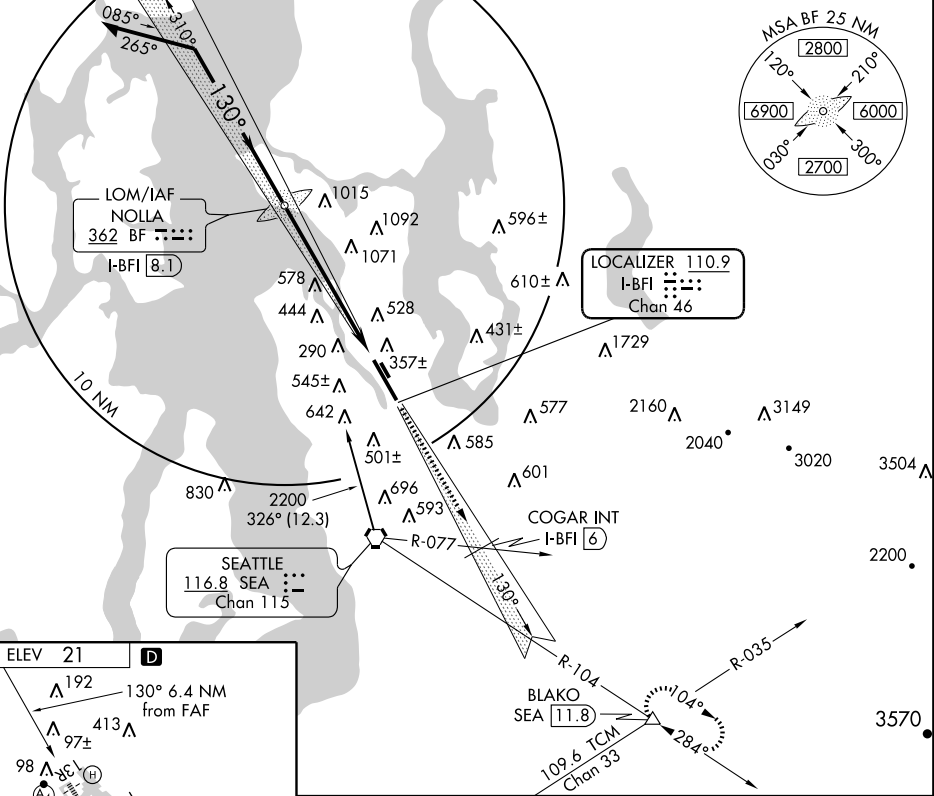
SEATTLE/BOEING FIELD/KING COUNTY INTL (BFI)

⚠ Inoperative table does not apply. Visibility reduction by helicopters NA. Circling requires descent on GS to MDA. Front course unusable beyond 20 degrees left of course.

MALSF

MISSED APPROACH: Climb to 2000 via I-BFI SE course to COGAR/I-BFI 6 DME/SEA R-077, then continue climb to 6400 via I-BFI SE course and SEA R-104 to BLAKO Int/SEA 11.8 DME and hold, continue climb-in-hold to 6400.

ATIS	SEATTLE APP CON	BOEING TOWER	GND CON	CLNC DEL
127.75	119.2 284.7	120.6 257.8	121.9	132.4



ELEV 21	D
130° 6.4 NM from FAF	
3710 X 100	
376	
241	
162	
180±	
311	
59	
MIRL Rwy 13L-31R	
HIRL Rwy 13R-31L	
REIL Rws 13L, 31L and 31R	
FAF to MAP 6.4 NM	
Knots	60 90 120 150 180
Min:Sec	6:24 4:16 3:12 2:34 2:08

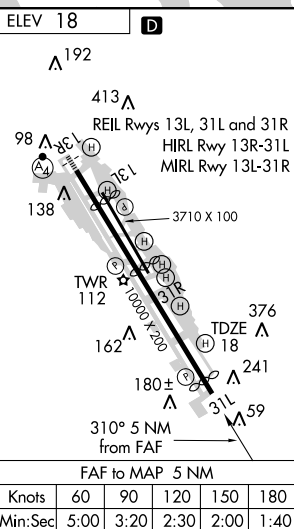
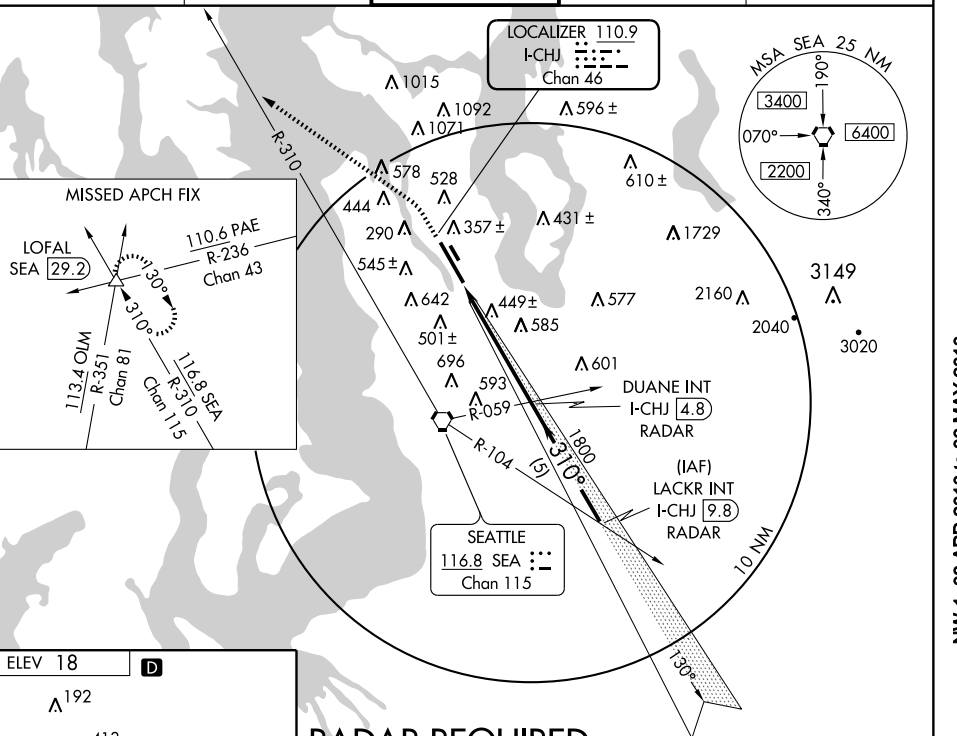
Remain within 10 NM	NOLLA LOM I-BFI 8.1	2000 I-BFI SE CRS	COGAR I-BFI 6	6400 I-BFI SE CRS	SEA R-104 116.8	BLAKO
VGS and ILS glidepath not coincident.						
2200 130° 2123 2200 6.4 NM						
GS 3.00° TCH 40						
CATEGORY	A	B	C	D		
S-ILS 13R	291/50 273 (300-1)					
CIRCLING	780-1 759 (800-1)	840-1¼ 819 (900-1¼)	900-2½ 879 (900-2½)	960-3 939 (1000-3)		

LOC/DME I-CHJ	APP CRS	Rwy Idg	9120
110.9	310°	TDZE	18
Chan 46		Apt Elev	18

⚠

MISSED APPROACH: Climb to 700 then climbing left turn to 6000 via heading 285° and SEA R-310 to LOFAL Int/SEA 29.2 DME and hold.

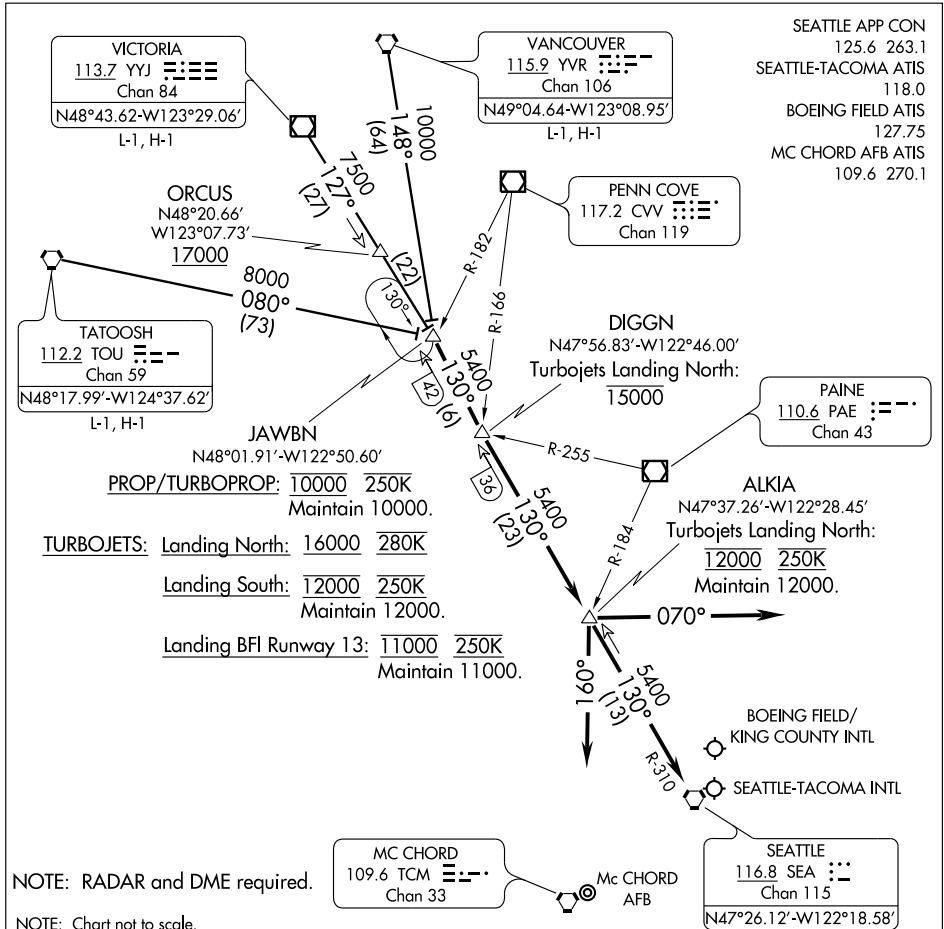
ATIS 127.75	SEATTLE APP CON 119.2 284.7	BOEING TOWER 120.6 257.8	GND CON 121.9	CLNC DEL 132.4
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RADAR REQUIRED

700	6000	SEA R-310 116.8	LOFAL △	DUANE INT I-CHJ [4.8] RADAR	LACKR INT I-CHJ [9.8] RADAR
↑	285°	Use I-CHJ DME when on LOC course.			
		1739	310°	2600	GS 3.10° TCH 60
		1800	1800	* LOC only	
5 NM		5 NM			
CATEGORY	A	B	C	D	
S-ILS 31L	410-1¼ 392 (400-1¼)				
S-LOC 31L	700-1 682 (700-1)		700-2 682 (700-2)		700-2¼ 682 (700-2¼)
CIRCLING	780-1¼ 762 (800-1¼)		840-1¼ 822 (900-1¼)		960-3 942 (1000-3)

NW-1, 08 APR 2010 to 06 MAY 2010



TATOOSH TRANSITION (TOU.JAWBN1): From over TOU VORTAC via TOU R-080 to JAWBN INT. Thence....

VANCOUVER TRANSITION (YVR.JAWBN1): From over YVR VORTAC via YVR R-148 to JAWBN INT. Thence....

VICTORIA TRANSITION (YYJ.JAWBN1): From over YYJ VOR/DME via YYJ R-127 to JAWBN INT. Thence....

....From over JAWBN INT/SEA 42 DME via SEA R-310 to DIGGN/SEA 36 DME then via SEA R-310 to ALKIA INT/SEA 13 DME, thence....

LANDING NORTH: Depart ALKIA INT heading 160° for vectors to final approach course.

LANDING SOUTH: Depart ALKIA INT heading 070° for vectors to final approach course.

LANDING McCHORD AFB: After ALKIA INT proceed direct SEA VORTAC.

LOST COMMUNICATIONS: After ALKIA INT proceed direct SEA VORTAC.

KENT FOUR DEPARTURE

SL-384 (FAA)

SEATTLE/BOEING FIELD/KING COUNTY INTL (BFI)

SEATTLE, WASHINGTON

ATIS 127.75
CLNC DEL
132.4
GND CON
121.9
BOEING TOWER
120.6 257.8
SEATTLE DEP CON
119.2 284.7

VICTORIA
113.7 YYJ
Chan 84
N48°43.62'-W123°29.06'
L-1, H-1

VANCOUVER
115.9 YVR
Chan 106
N49°04.64'-W123°08.95'
L-1, H-1

CRANBROOK
112.1 YXC
Chan 58
N49°33.30'-W116°05.27'
H-1

WHATCOM
113.0 HUH
Chan 77
N48°56.72'-W122°34.76'
L-1, H-1

PAINE
110.6 PAE
Chan 43
N47°55.19'-W122°16.67'
L-1

TAKE-OFF OBSTACLES:
463' Tree
288' Tree
DEPARTURE OBSTACLES:
620' Tower
558' Tree
562' Tank

MOSES LAKE
115.0 MWH
Chan 97
N47°12.65'-W119°19.01'
L-13, H-1

SEATTLE
116.8 SEA
Chan 115
N47°26.12'-W122°18.58'
L-1, H-1

WENATCHEE
111.0 EAT
Chan 47
N47°23.98'-W120°12.65'
L-13

McCHORD
109.6 TCM
Chan 33
N47°08.86'-W122°28.50'
L-1, H-1

HOQUIAM
117.7 HQM
Chan 124
N46°56.82'-W124°08.96'
L-1, H-1

OLYMPIA
113.4 OLM
Chan 81
N46°58.30'-W122°54.11'
L-1, H-1

BATTLE GROUND
116.6 BTG
Chan 113
N45°44.87'-W122°35.49'
L-1, H-1

YAKIMA
116.0 YKM
Chan 107
N46°34.22'-W120°26.68'
L-13, H-1

ELLENSBURG
117.9 ELN
Chan 126
N47°01.46'-W120°27.51'
L-13

TAKE-OFF Rwy 13L/R: Standard with a minimum climb of 380' per NM to 700'.

NOTE: No left turns authorized until leaving 1000'.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 13L/R: Climb runway heading, expect radar vectors to assigned route/fix. Maintain 2000 or ATC assigned altitude, expect clearance to filed altitude within 3 minutes after departure.

LOST COMMUNICATIONS: If no contact with departure control within 3 minutes after departure, climbing right turn direct SEA VORTAC, climb in SEA VORTAC holding pattern (E, left turn 290° inbound) to cross SEA VORTAC at or above MEA/MCA for direction of flight before proceeding enroute.

LOC/DME I-BFI	APP CRS	Rwy Idg	9120
110.9	130°	TDZE	18
Chan 46		Apt Elev	21

LOC/DME RWY 13R

SEATTLE/BOEING FIELD/KING COUNTY INTL (BFI)

▼

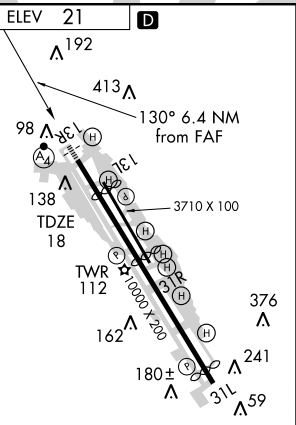
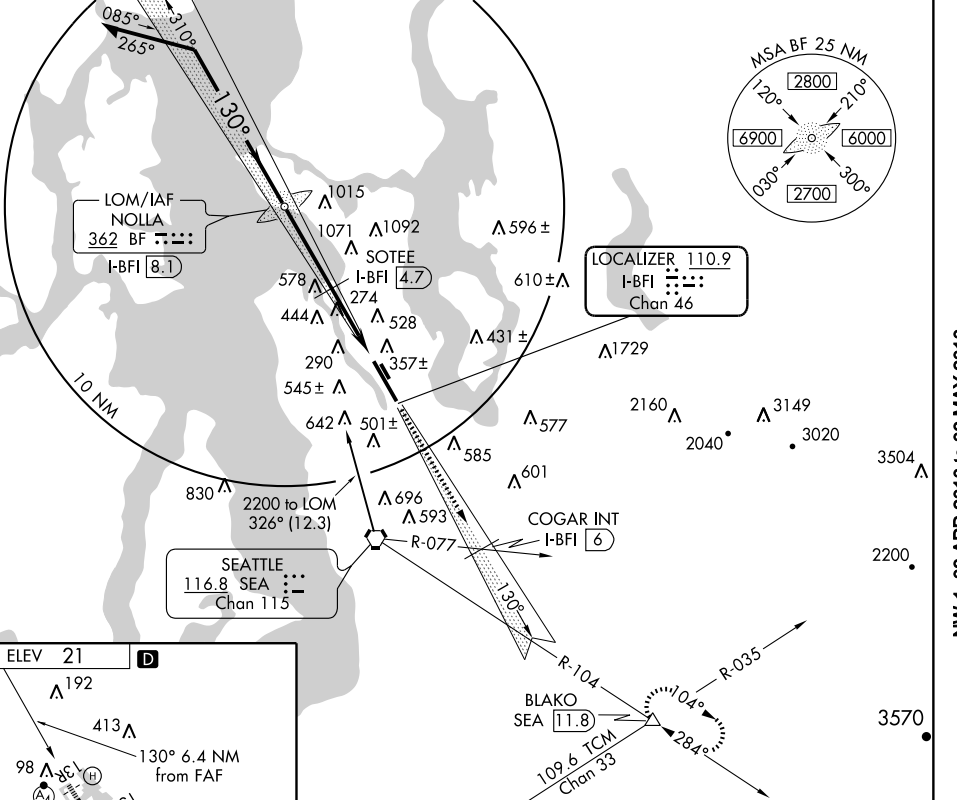
▲

Inoperative table does not apply. Visibility reduction by helicopters NA. Front course unusable beyond 20 degrees left of course.

MALSF

MISSED APPROACH: Climb to 2000 via I-BFI SE course to COGAR/I-BFI 6 DME/SEA R-077, then continue climb to 6400 via I-BFI SE course and SEA R-104 to BLAKO Int/SEA 11.8 DME and hold, continue climb-in-hold to 6400.

ATIS	SEATTLE APP CON	BOEING TOWER	GND CON	CLNC DEL
127.75	119.2 284.7	120.6 257.8	121.9	132.4



MIRL Rwy 13L-31R
HIRL Rwy 13R-31L
REIL Rws 13L, 31L and 31R

Remain within 10 NM		NOLLA LOM I-BFI 8.1	2000 I-BFI SE CRS	COGAR I-BFI 6	6400 I-BFI SE CRS	SEA R-104 116.8	BLAKO
2200		2200	1080	1080	1080	1080	1080
VGSI and descent angles not coincident.		3.4 NM	3 NM	3 NM	3 NM	3 NM	3 NM
CATEGORY	A	B	C	D			
S-LOC 13R	560/50	542 (600-1)	560-1½ 542 (600-1½)	560-1¾ 542 (600-1¾)			
CIRCLING	780-1 759 (800-1)	840-1¼ 819 (900-1¼)	900-2½ 879 (900-2½)	960-3 939 (1000-3)			

NW-1, 08 APR 2010 to 06 MAY 2010

NEEDLE SIX DEPARTURE

SEATTLE/ BOEING FIELD/KING COUNTY INTL (BFI)
SL-384 (FAA)

SEATTLE, WASHINGTON

ATIS 127.75
CLNC DEL
132.4
GND CON
121.9
BOEING TOWER
120.6 257.8
SEATTLE DEP CON
119.2 284.7

VANCOUVER
115.9 YVR
Chan 106
N49°04.64'-W123°08.95'
L-1, H-1

CRANBROOK
112.1 YXC
Chan 58
N49°33.30'-W116°05.27'
H-1

WHATCOM
113.0 HUH
Chan 77
N48°56.72'-W122°34.76'
L-1, H-1

TAKE-OFF OBSTACLES:

192' Flagpole
350' Tower

DEPARTURE OBSTACLES:

1071' Building
578' Towers

VICTORIA
113.7 YYJ
Chan 84
N48°43.62'-W123°29.06'
L-1, H-1

SEATTLE
116.8 SEA
Chan 115
N47°26.12'-W122°18.58'
L-1, H-1

PAINE
110.6 PAE
Chan 43
N47°55.19'-W122°16.66'
L-1

WENATCHEE
111.0 EAT
Chan 47
N47°23.98'-W120°12.65'
L-13

MOSES LAKE
115.0 MWH
Chan 97
N47°12.65'-W119°19.01'
L-13, H-1

HOQUIAM
117.7 HQM
Chan 124
N46°56.82'-W124°08.96'
L-1, H-1

OLYMPIA
113.4 OLM
Chan 81
N46°58.30'-W122°54.11'
L-1, H-1

ELLENSBURG
117.9 ELN
Chan 126
N47°01.46'-W120°27.51'
L-13

BATTLE GROUND
116.6 BTG
Chan 113
N45°44.87'-W122°35.49'
L-1, H-1

YAKIMA
116.0 YKM
Chan 107
N46°34.22'-W120°26.68'
L-13, H-1

TAKE-OFF Rwy 31L/R: Standard with a minimum climb of
350' per NM to 1300'.

NOTE: No right turns authorized until leaving 1300'.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 31L/R: Climb runway heading, expect radar vectors to assigned route/fix. Maintain 2000 or ATC assigned altitude, expect clearance to filed altitude within 3 minutes after departure.

LOST COMMUNICATIONS: If no contact with departure control within 3 minutes after departure, climbing left turn direct SEA VORTAC, climb in SEA VORTAC holding pattern (E, left turn 290° inbound) to cross SEA VORTAC at or above MEA/MCA for direction of flight before proceeding enroute.

OLYMPIA SIX ARRIVAL

ST-582 (FAA)

SEATTLE, WASHINGTON

SEATTLE APP CON

125.6 263.1

SEATTLE-TACOMA ATIS

118.0

BOEING FIELD ATIS

127.75

BOEING FIELD/
KING COUNTY INTL

SEATTLE-TACOMA INTL

SEATTLE
116.8 SEA
Chan 115
N47°26.12'-W122°18.58'

MC CHORD
109.6 TCM
Chan 33

OLYMPIA
113.4 OLM
Chan 81
N46°58.30'-W122°54.11'

PROP/TURBOPROP: 10000 250K
Maintain 10000.

TURBOJETS: Landing North: 12000 250K
Maintain 12000.

Landing South: 17000 280K

BATTLE GROUND
116.6 BTG
Chan 113
N45°44.87'-W122°35.49'
L-1, H-1

NEWBERG
117.4 UBG
Chan 121
N45°21.19'-W122°58.69'
L-1, H-1

NOTE: Chart not to scale.

NOTE: RADAR and DME required.

BATTLE GROUND TRANSITION (BTG.OLM6): From over BTG VORTAC via BTG R-329 and OLM R-151 to OLM VORTAC. Thence....

NEWBERG TRANSITION (UBG.OLM6): From over UBG VOR/DME via UBG R-341 and OLM R-163 to OLM VORTAC. Thence....

....From over OLM VORTAC via OLM R-022 to LACEE/OLM 6 DME, then via OLM R-022 to ARVAD INT/OLM 20 DME, then via OLM R-022 to FOURT INT/OLM 26 DME, thence...

LANDING NORTH: Depart FOURT INT/OLM 26 DME heading 070° for vectors to final approach course.

LANDING SOUTH: Depart FOURT INT/OLM 26 DME heading 340° for vectors to final approach course.

LOST COMMUNICATIONS: From over FOURT INT/OLM 26 DME, proceed direct SEA VORTAC.

APP CRS	Rwy Idg	9120
130°	TDZE	18
	Apt Elev	21

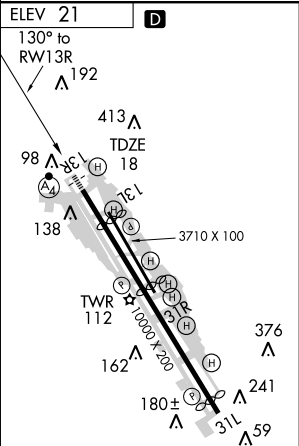
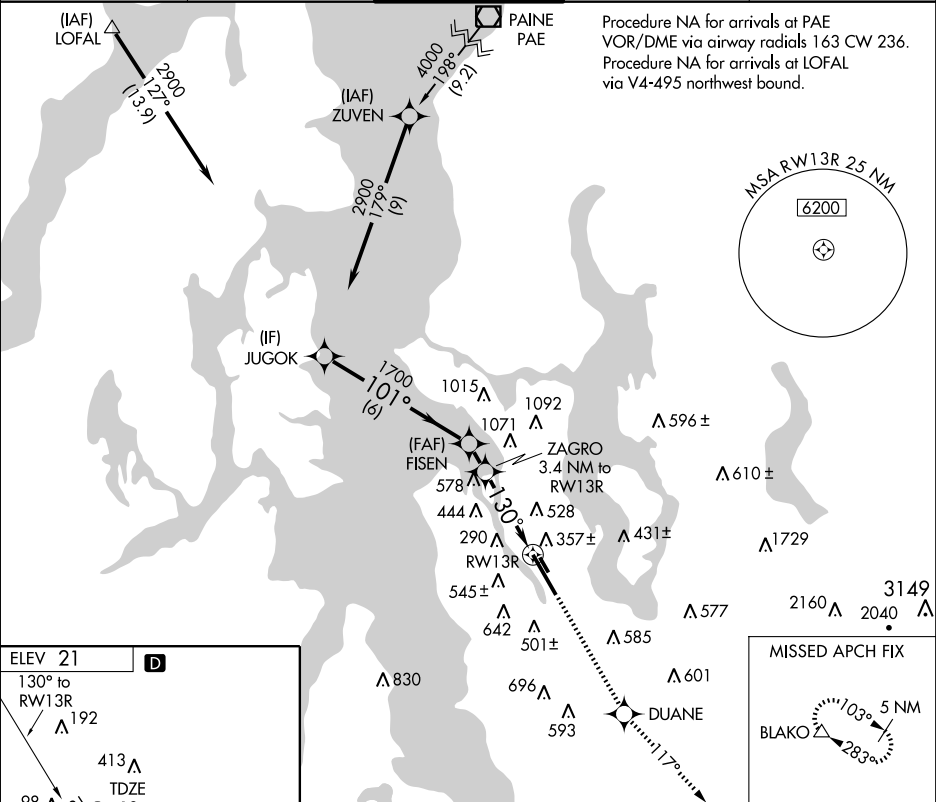
RNAV (GPS) Y RWY 13R

SEATTLE/BOEING FIELD/KING COUNTY INTL (BFT)

T Circling to Rwy 13L/31R NA at night.
A Inoperative table does not apply.
DME/DME RNP -0.3 NA. Visibility reduction by helicopters NA.

MALSF
MISSED APPROACH: Climb to 6400 direct DUANE and via 117° track to BLAKO and hold, continue climb-in-hold to 6400.

ATIS 127.75	SEATTLE APP CON 119.2 284.7	BOEING TOWER 120.6 257.8	GND CON 121.9	CLNC DEL 132.4
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MIRL Rwy 13L-31R
HIRL Rwy 13R-31L
REIL Rwy 13L, 31L and 31R


	JUGOK	FISEN	ZAGRO	DUANE	BLAKO
	2900	1700	1280	6400	117° track
	Procedure Turn NA	3.40° TCH 50	3.4 NM to RWY 13R	2 NM to RWY 13R	VGSI and descent angles not coincident
	6 NM	1.1 NM	1.4 NM	2 NM	
CATEGORY	A	B	C	D	
LNAV MDA	720/50	703 (700-1)	720-2 703 (700-2)	720-2¼ 703 (700-2¼)	
CIRCLING	780-1 759 (800-1)	840-1¼ 819 (900-1¼)	900-2¾ 879 (900-2¾)	960-3 939 (1000-3)	

APP CRS	Rwy Idg	9120
130°	TDZE	18
	Apt Elev	21

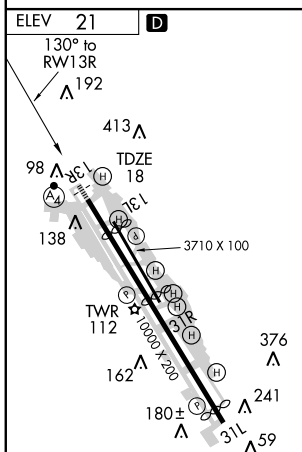
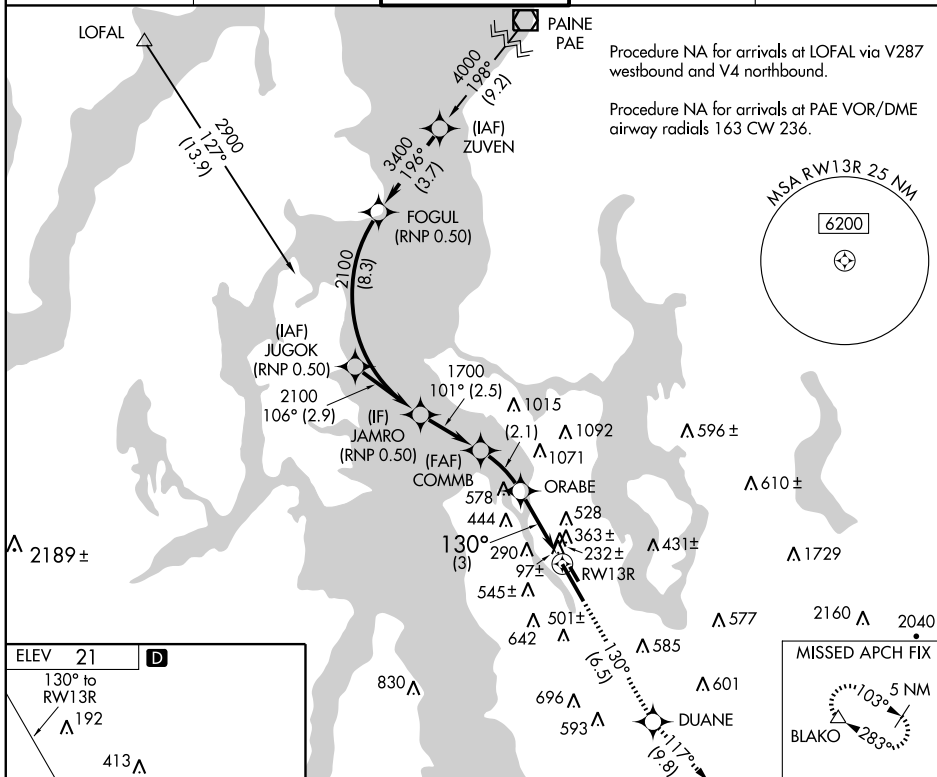
RNAV (RNP) Z RWY 13R

SEATTLE/ BOEING FIELD/KING COUNTY INTL (BFI)

GPS and RF required. For uncompensated Baro-VNAV systems, procedure NA below -3°C (26°F) or above 48°C (119°F). For inoperative MALSF, increase RNP 0.15 visibility to 1¼, RNP 0.30 to 2¼.

MALSF  **MISSED APPROACH:** Climb to 2000 via 130° track to DUANE then climb to 6400 via 117° track to BLAKO and hold. Continue climb-in-hold to 6400.

ATIS 127.75	SEATTLE APP CON 119.2 284.7	BOEING TOWER 120.6 257.8	GND CON 121.9	CLNC DEL 132.4
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JAMRO	2100	COMMB	1700	ORABE	1031	2000	DUANE	6400	BLAKO
Procedure Turn NA	101°	1700	130°	130°	130°	130°	117°		
GP 3.00° TCH 50	2.5 NM	2.1 NM	3 NM						
CATEGORY	A	B	C	D					
RNP 0.15 DA	523-1½ 505 (600-1½)								
RNP 0.30 DA	637-2 619 (700-2)								

SPECIAL AIRCRAFT & AIRCREW AUTHORIZATION REQUIRED

MIRL Rwy 13L-31R
HIRL Rwy 13R-31L
REIL Rwy 13L, 31L and 31R

APRON

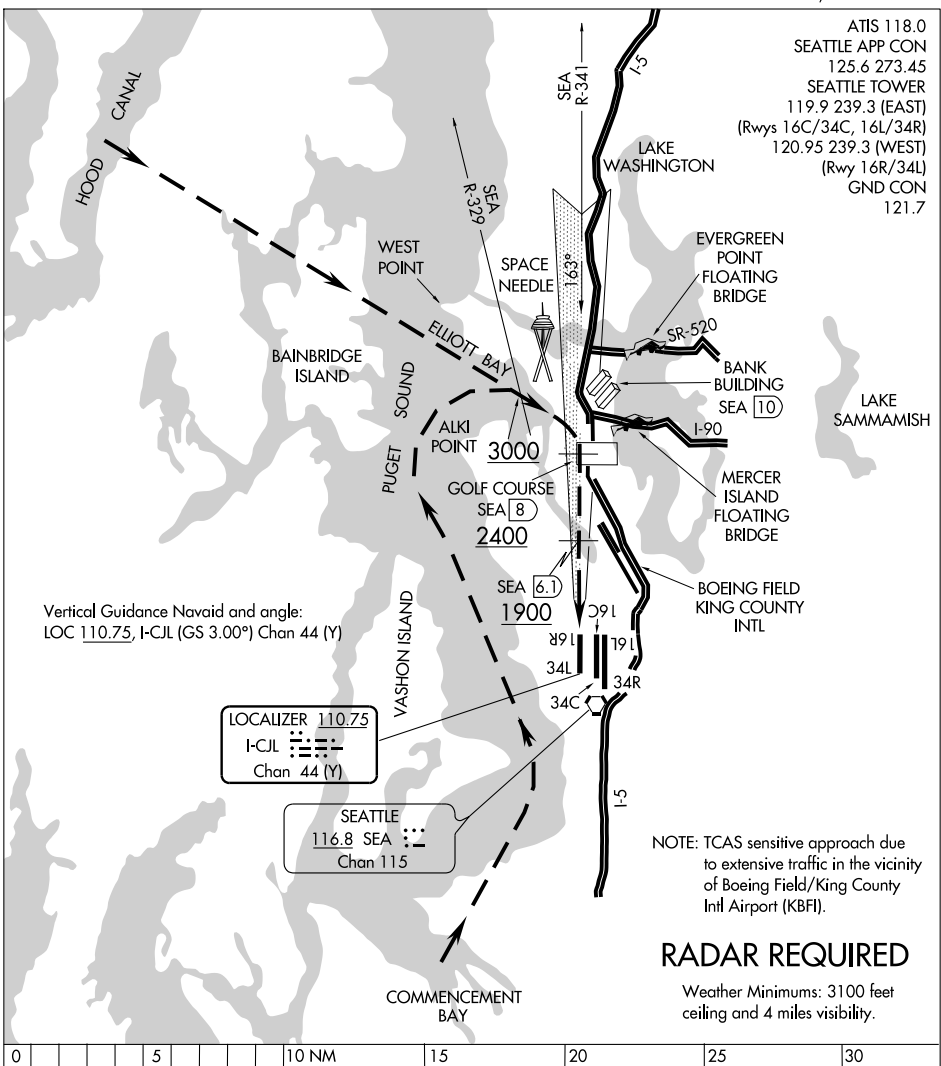
NW-1. 08 APR 2010 to 06 MAY 2010

ALKI VISUAL RWY 16R

AL-582 (FAA)

SEATTLE-TACOMA INTL (SEA)

SEATTLE, WASHINGTON



ALKI VISUAL APPROACH RWY 16R

When the ceiling is at least 3100' and visibility is at least 4 miles, aircraft may be vectored over Puget Sound for an Alki Visual Runway 16R Approach. When cleared for an Alki Visual Approach: proceed inbound visually over the middle of Elliott Bay (via route depicted); intercept the Runway 16R Localizer/SEA R-341 on Runway 16R extended centerline at the golf course (8 DME) and complete a straight in visual approach to the airport. On final approach, a descent profile of approximately 300' per mile may be made with reference to the altitudes shown at the visual checkpoints or associated DME/fix positions.

BANGR SIX DEPARTURE (RNAV)



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 16L: Climb direct CAVOB, then via 165° track to cross RENBE at or above 3000, then via depicted route to BANGR, thence. . . .

TAKE-OFF RUNWAY 16C: Climb direct OTLIE, then via 163° track to cross RENBE at or above 3000, then via depicted route to BANGR, thence. . . .

TAKE-OFF RUNWAY 16R: Climb direct WESET, then via 160° track to cross RENBE at or above 3000, then via depicted route to BANGR, thence. . . .

TAKE-OFF RUNWAY 34L: Climb direct CUSBU, then via 348° track to cross WUREL at or above 3000, then via depicted route to BANGR, thence. . . .

TAKE-OFF RUNWAY 34C: Climb direct NESOE, then via 343° track to cross WUREL at or above 3000, then via depicted route to BANGR, thence. . . .

TAKE-OFF RUNWAY 34R: Climb direct DODVE, then via 341° track to cross WUREL at or above 3000, then via depicted route to BANGR, thence. . . .

. . . . via (transition). Maintain assigned altitude, expect filed altitude/flight level 15 NM from SEA VORTAC.

ARRIE TRANSITION (BANGR6.ARRIE)

PANGL TRANSITION (BANGR6.PANGL)

TAKE-OFF OBSTACLE NOTES

Rwy 16L: Trees beginning 2908' from DER, 1064' right of centerline, up to 100' AGL/476' MSL.

Rwy 16C: Trees beginning 4477' from DER, 484' right of centerline, up to 100' AGL/507' MSL.

Rwy 16R: Trees, antenna on building and light pole beginning 488' from DER, 436' left of centerline, up to 100' AGL/507' MSL. Trees beginning 1137' from DER, 587' right of centerline, up to 100' AGL/468' MSL.

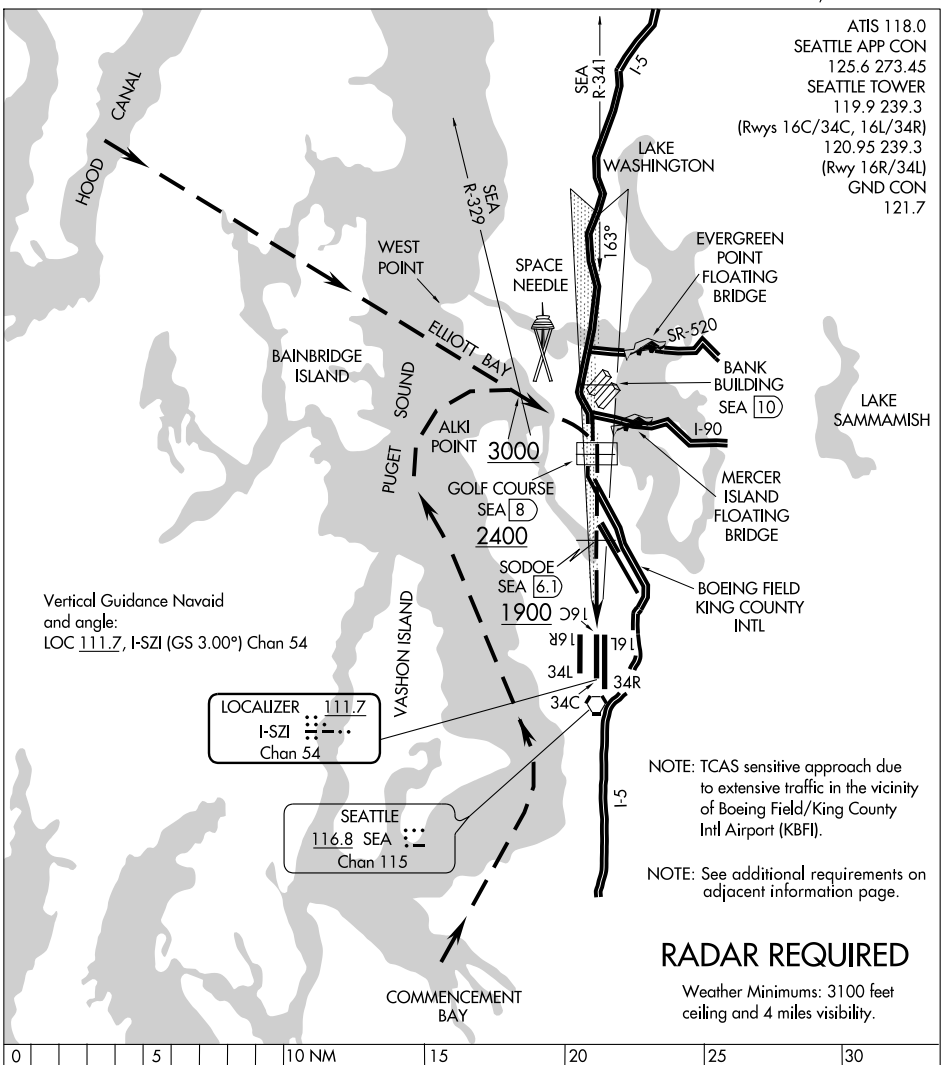
Rwy 34L: Fence 189' from DER, 401' right of centerline, up to 12' AGL/420' MSL. Trees beginning 4010' from DER, 857' left of centerline, up to 100' AGL/522' MSL.

BAY VISUAL RWY 16C

AL-582 (FAA)

SEATTLE-TACOMA INTL (SEA)

SEATTLE, WASHINGTON



BAY VISUAL APPROACH RWY 16C

When the ceiling is at least 3100' and visibility is at least 4 miles, aircraft may be vectored over Puget Sound for a Bay Visual Runway 16C Approach. When cleared for a Bay Visual Approach: proceed inbound visually over the middle of Elliott Bay (via route depicted); intercept the Runway 16C Localizer/SEA R-341 on Runway 16C extended centerline at the golf course (8 DME) and complete a straight in visual approach to the airport. On final approach, a descent profile of approximately 300' per mile may be made with reference to the altitudes shown at the visual checkpoints or associated DME/fix positions.

SEATTLE-TACOMA INTL AIRPORT**ALERT NOTICE****ATTENTION ALL AIRCRAFT LANDING TO THE SOUTH:**

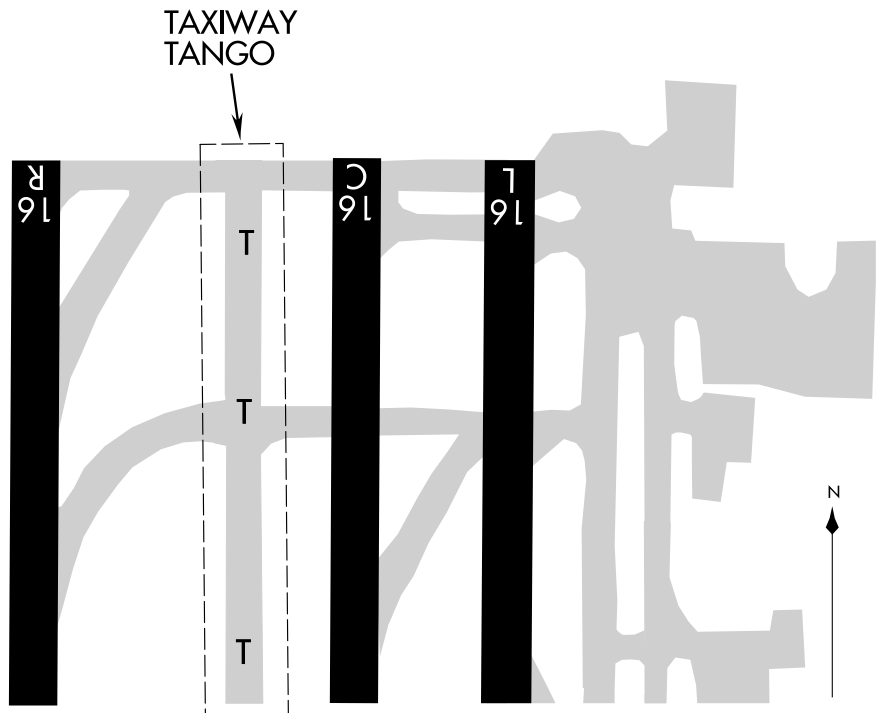
When transitioning from an instrument procedure to a visual approach to Runway 16C, verify that you are aligned for the intended landing Runway, not Taxiway Tango. Taxiway Tango is west and parallel to Runway 16C.

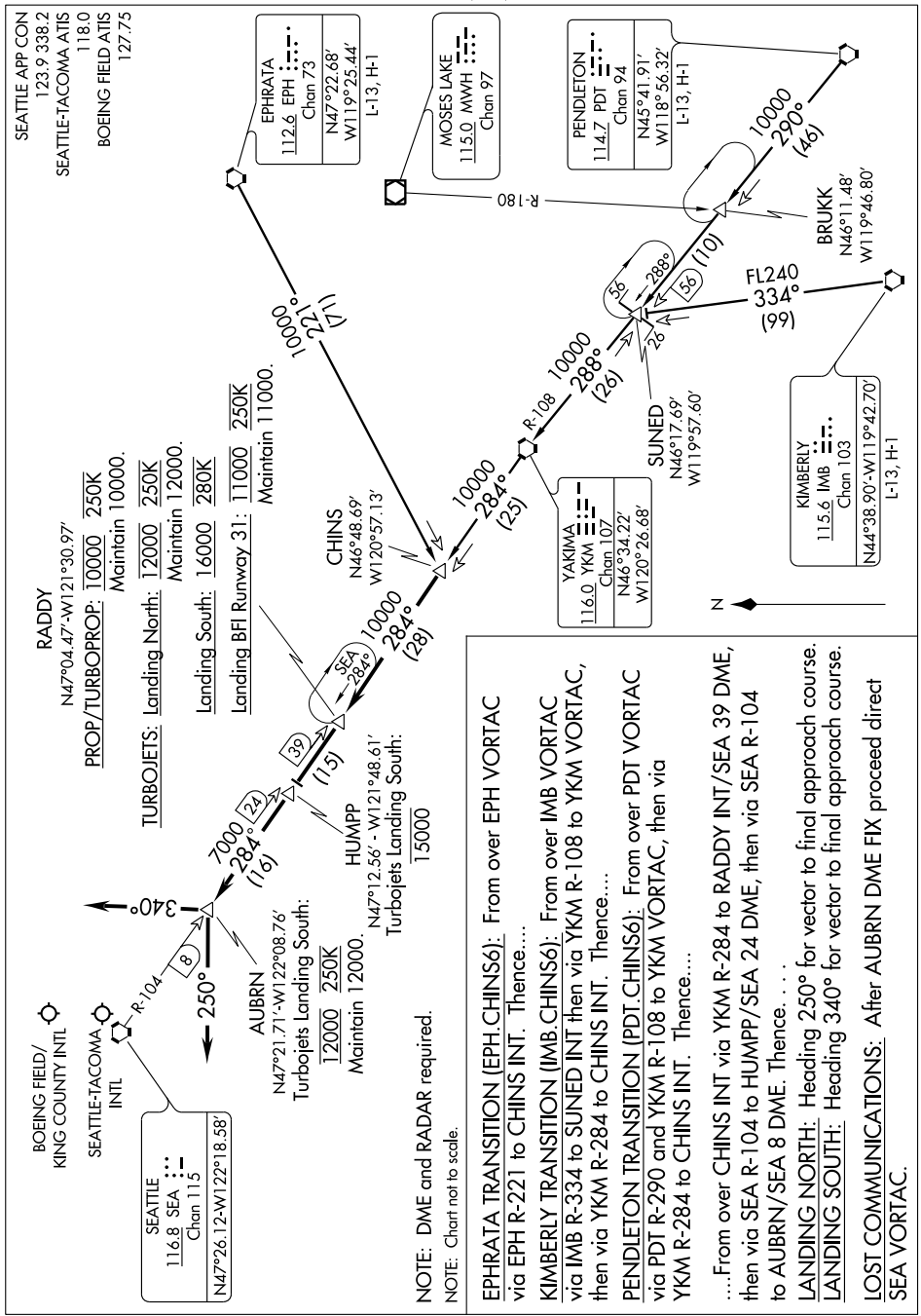
TRANSITION TO VISUAL:

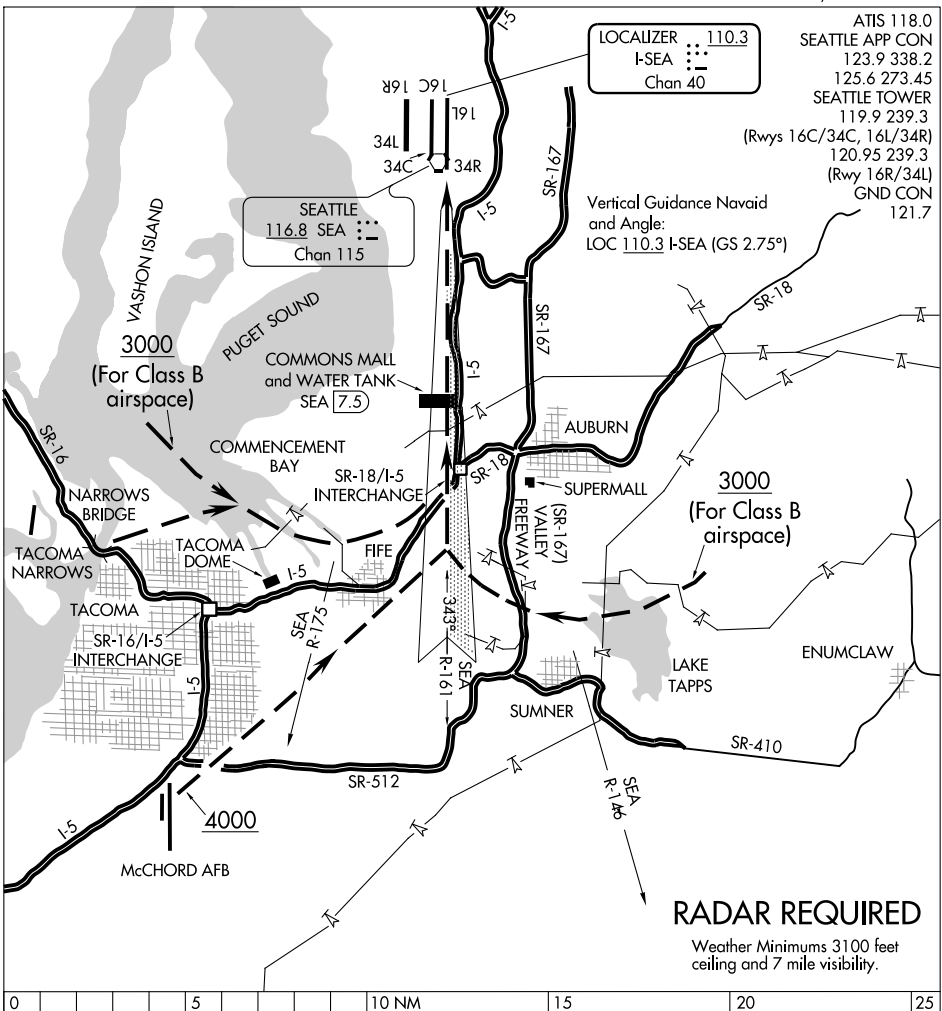
Taxiway Tango has been mistaken for Runway 16C from the air during certain visibility conditions, i.e., wet runway, low sun angle reflections. Aircrews are advised to be aware of the proximity of the taxiway to Runway 16C and its runway-like appearance while on approach.

RECOMMENDATION:

Aircrews should use visual cues, e.g., approach lighting systems, REILs, when available, to confirm alignment with Runway 16C not Taxiway Tango. Additionally, it is recommended to track the localizer until the runway environment is visually verified.







COMMONS VISUAL APPROACH RWY 34R

When the ceiling is at least 3100' and visibility is at least 7 miles, aircraft may be vectored towards Commencement Bay or McChord AFB or Lake Tappan for a Commons Visual Runway 34R Approach. When cleared for this approach; proceed inbound visually using the depicted landmarks to the centerline of runway 34R. Turn final before or over the interchange of State Road 18 (SR-18) and Interstate 5. Be established on the localizer or runway centerline at the Commons Mall and Water Tank (7.5 DME) and proceed visually to the runway.

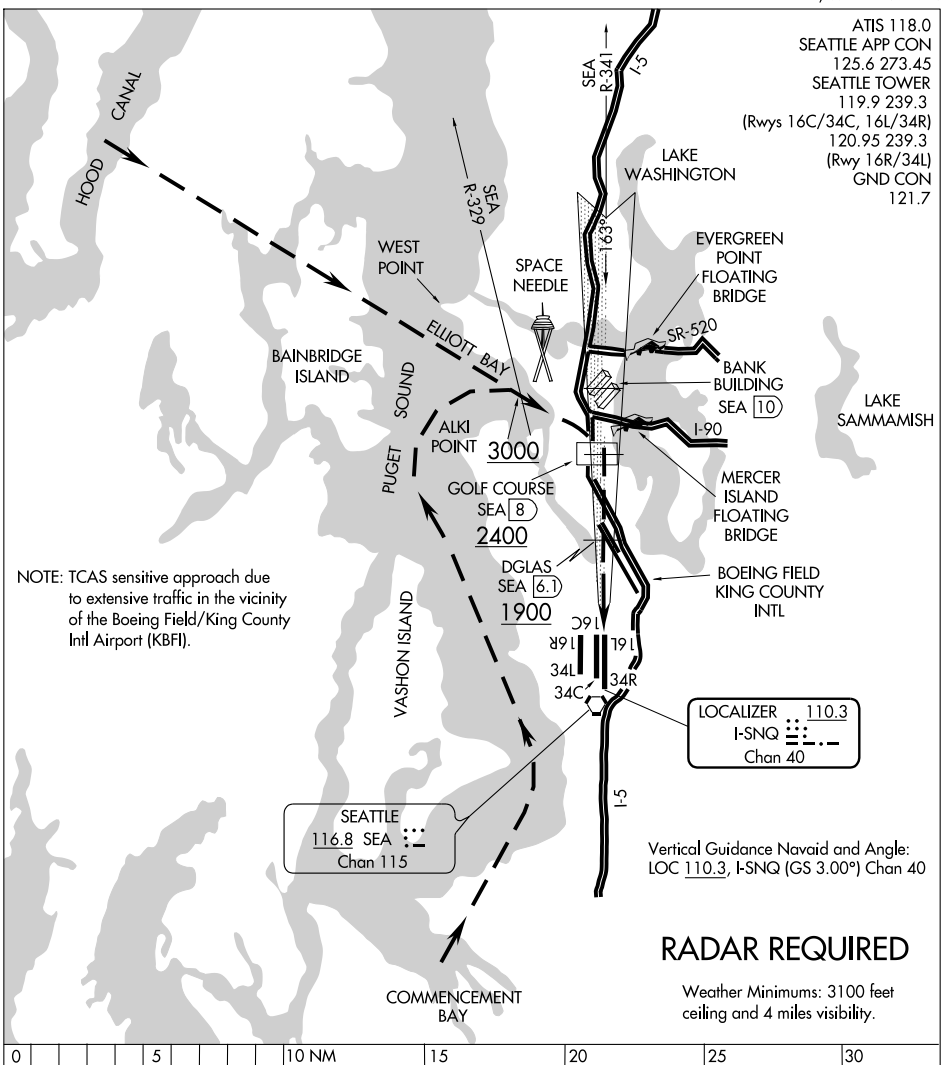
DAWG VISUAL APPROACH RWY 16R

ELLIOTT VISUAL RWY 16L

AL-582 (FAA)

SEATTLE-TACOMA INTL (SEA)

SEATTLE, WASHINGTON



ELLIOTT VISUAL APPROACH RWY 16L

When the ceiling is at least 3100' and visibility is at least 4 miles, aircraft may be vectored over Puget Sound for an Elliott Visual Runway 16L Approach. When cleared for an Elliott Visual Approach: proceed inbound visually over the middle of Elliott Bay (via route depicted); intercept the 16L Localizer/SEA R-341 on Runway 16L extended centerline at the golf course (8 DME) and complete a straight in visual approach to the airport. On final approach, a descent profile of approximately 300' per mile may be made with reference to the altitude shown at the visual checkpoints or associated DME/fix positions.

ELMAA EIGHT DEPARTURE

SL-582 (FAA)

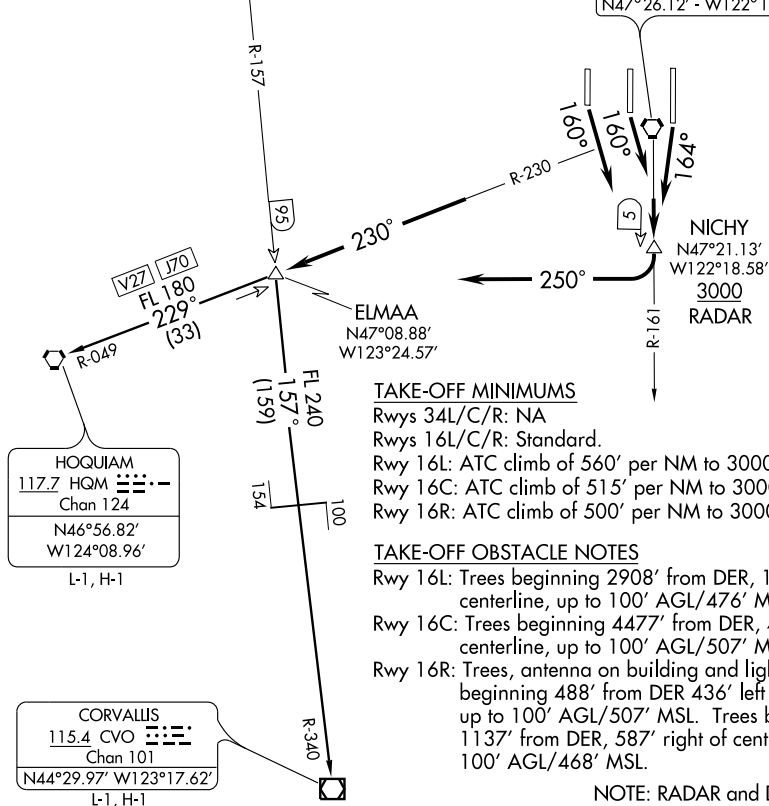
SEATTLE-TACOMA INTL (SEA)

SEATTLE, WASHINGTON

ATIS
118.0
SEATTLE DEP CON
120.4 395.0

VICTORIA
113.7 YYJ
Chan 84

SEATTLE
116.8 SEA
Chan 115
N47°26.12' - W122°18.58'



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 16L: Climb heading 164° and SEA R-161, thence. . .

TAKE-OFF RUNWAYS 16C/R: Climb heading 160° and SEA R-161, thence. . .

. . . to cross NICHY/5 DME/RADAR at or above 3000, then right turn heading 250° to intercept SEA R-230 to ELMAA INT, then via (transition/assigned route), expect filed altitude/flight level 15 NM from SEA.

CORVALLIS TRANSITION (ELMAA8.CVO): From over ELMAA INT via YYJ R-157 and CVO R-340 to CVO VOR/DME.

HOQUIAM TRANSITION (ELMAA8.HQM): From over ELMAA INT via HQM R-049 to HQM VORTAC.

SEATTLE APP CON

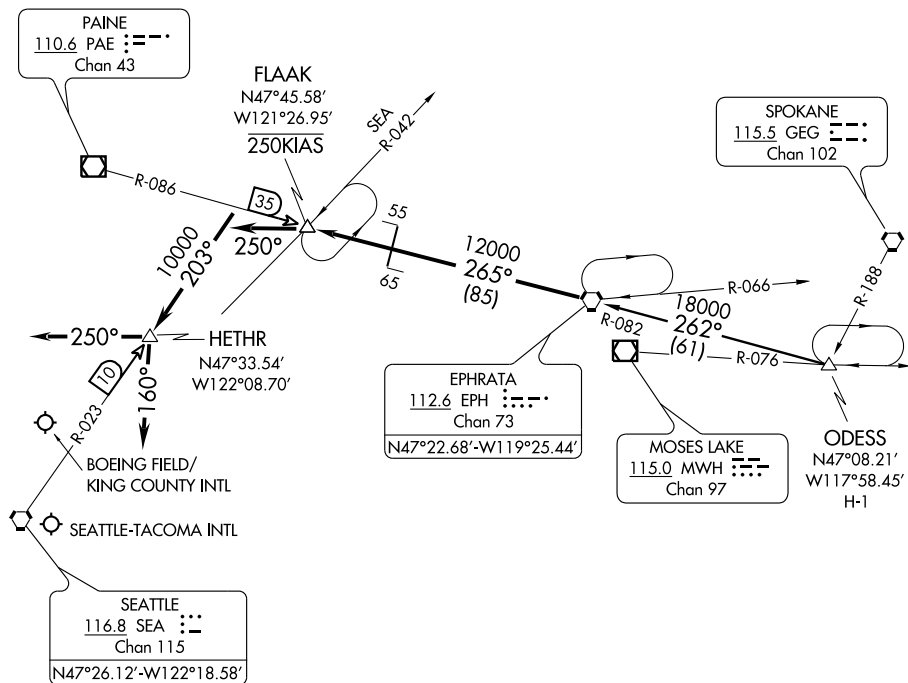
123.9 338.2

SEATTLE-TACOMA ATIS

118.0

BOEING FIELD ATIS

127.75



NOTE: DME and RADAR required.

ODESS TRANSITION (ODESS.EPH6): From over ODESS INT via EPH R-082 to EPH VORTAC. Thence....

....From over EPH VORTAC via EPH R-265 and PAE R-086 to FLAAK INT. Then via heading 250° to intercept the SEA R-023, then via SEA R-023 to HETHR DME Fix, thence....

LANDING NORTH: Heading 160° for vectors to final approach course;

LANDING SOUTH: Heading 250° for vectors to final approach course.

LOST COMMUNICATIONS: From over HETHR DME proceed direct SEA VORTAC.

ST-582 (FAA)

SEATTLE, WASHINGTON



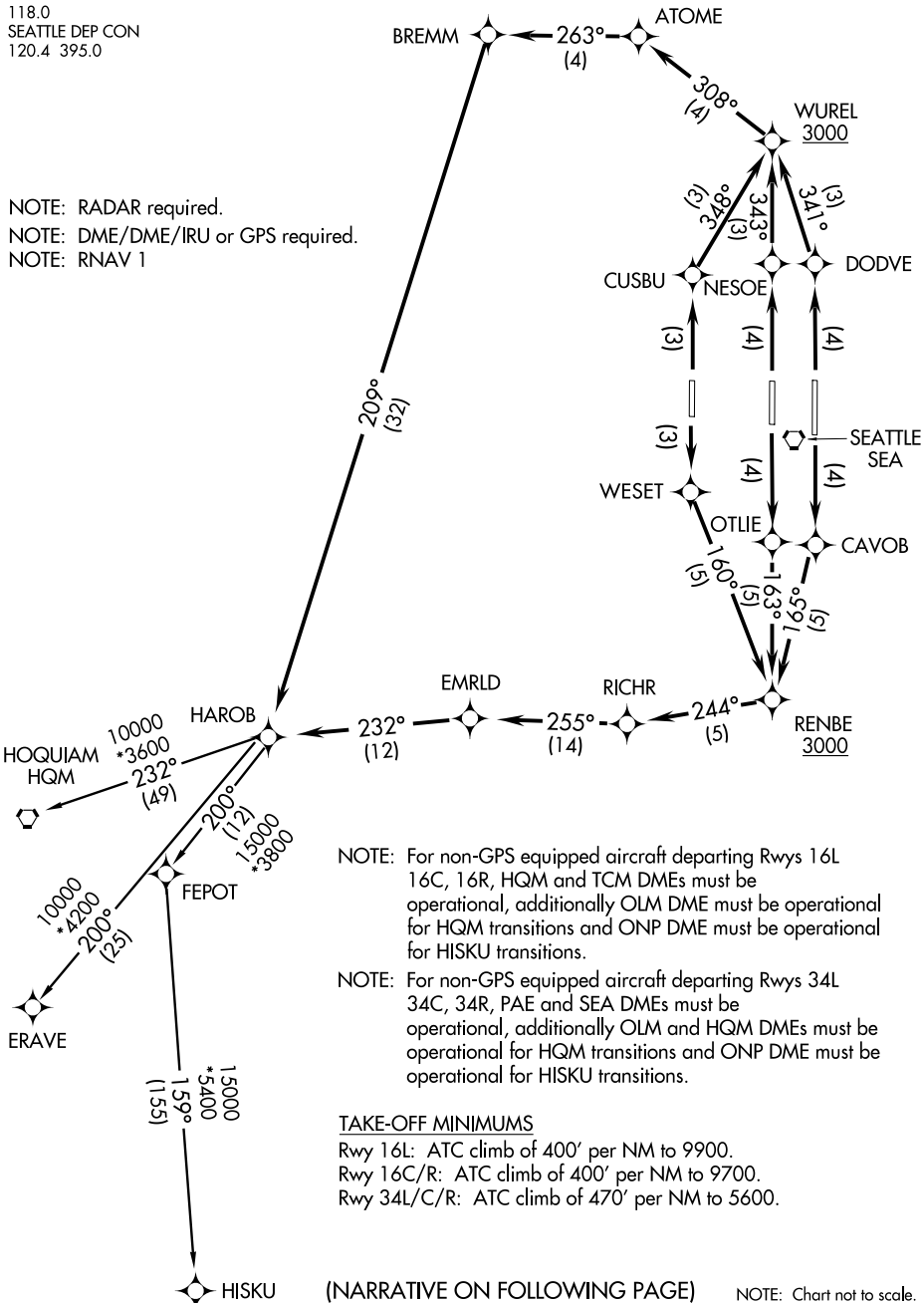
NOTE: Chart not to scale.

NOTE: DME and RADAR required.

HAROB THREE DEPARTURE (RNAV)

ATIS
118.0
SEATTLE DEP CON
120.4 395.0

NOTE: RADAR required.
NOTE: DME/DME/IRU or GPS required.
NOTE: RNAV 1



(NARRATIVE ON FOLLOWING PAGE)

NOTE: Chart not to scale.

NW-1, 08 APR 2010 to 06 MAY 2010

HAROB THREE DEPARTURE (RNAV)



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 16L: Climb direct CAVOB, then via 165° track to cross RENBE at or above 3000, then via depicted route to HAROB, thence. . . .

TAKE-OFF RUNWAY 16C: Climb direct OTLIE, then via 163° track to cross RENBE at or above 3000, then via depicted route to HAROB, thence. . . .

TAKE-OFF RUNWAY 16R: Climb direct WESET, then via 160° track to cross RENBE at or above 3000, then via depicted route to HAROB, thence. . . .

TAKE-OFF RUNWAY 34L: Climb direct CUSBU, then via 348° track to cross WUREL at or above 3000, then via depicted route to HAROB, thence. . . .

TAKE-OFF RUNWAY 34C: Climb direct NESOE, then via 343° track to cross WUREL at or above 3000, then via depicted route to HAROB, thence. . . .

TAKE-OFF RUNWAY 34R: Climb direct DODVE, then via 341° track to cross WUREL at or above 3000, then via depicted route to HAROB, thence. . . .

. . . . via (transition). Maintain assigned altitude, expect filed altitude/flight level 15 NM from SEA VORTAC.

ERAVE TRANSITION (HAROB3.ERAVE)

FEPOT TRANSITION (HAROB3.FEPOT)

HISKU TRANSITION (HAROB3.HISKU)

HOQUIAM TRANSITION (HAROB3.HQM)

TAKE-OFF OBSTACLE NOTES

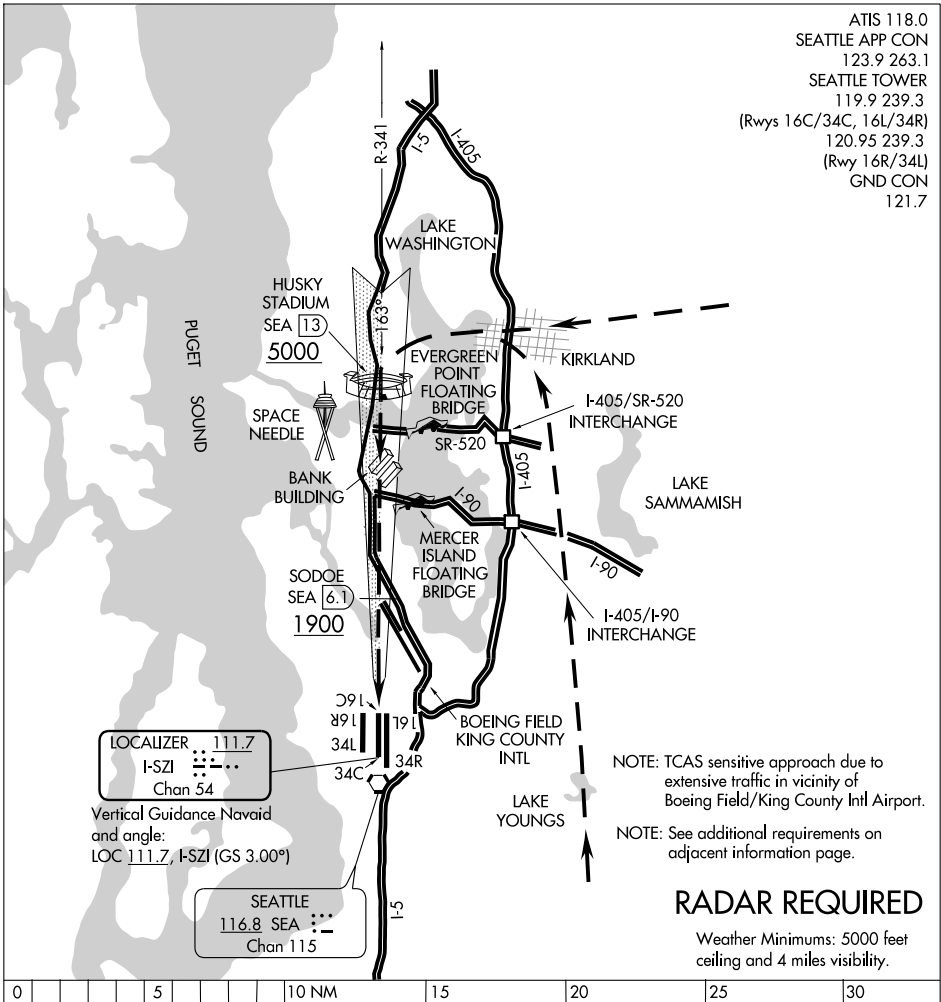
Rwy 16L: Trees beginning 2908' from DER, 1064' right of centerline, up to 100' AGL/476' MSL.

Rwy 16C: Trees beginning 4477' from DER, 484' right of centerline, up to 100' AGL/507' MSL.

Rwy 16R: Trees, antenna on building and light pole beginning 488' from DER, 436' left of centerline, up to 100' AGL/507' MSL. Trees beginning 1137' from DER, 587' right of centerline, up to 100' AGL/468' MSL.

Rwy 34L: Fence 189' from DER, 401' right of centerline, up to 12' AGL/420' MSL.

Trees beginning 4010' from DER, 857' left of centerline, up to 100' AGL/522' MSL.



HUSKY VISUAL APPROACH RWY 16C

When the ceiling is at least 5000' and visibility is at least 4 miles, aircraft may be vectored over Kirkland or Lake Youngs for a Husky Visual Runway 16C Approach. When cleared for a Husky Visual Approach; proceed inbound visually over Husky Stadium (via route depicted); intercept the Runway 16C localizer/SEA R-341 at 13 DME and complete a straight in visual approach to the airport.

SEATTLE-TACOMA INTL AIRPORT**ALERT NOTICE****ATTENTION ALL AIRCRAFT LANDING TO THE SOUTH:**

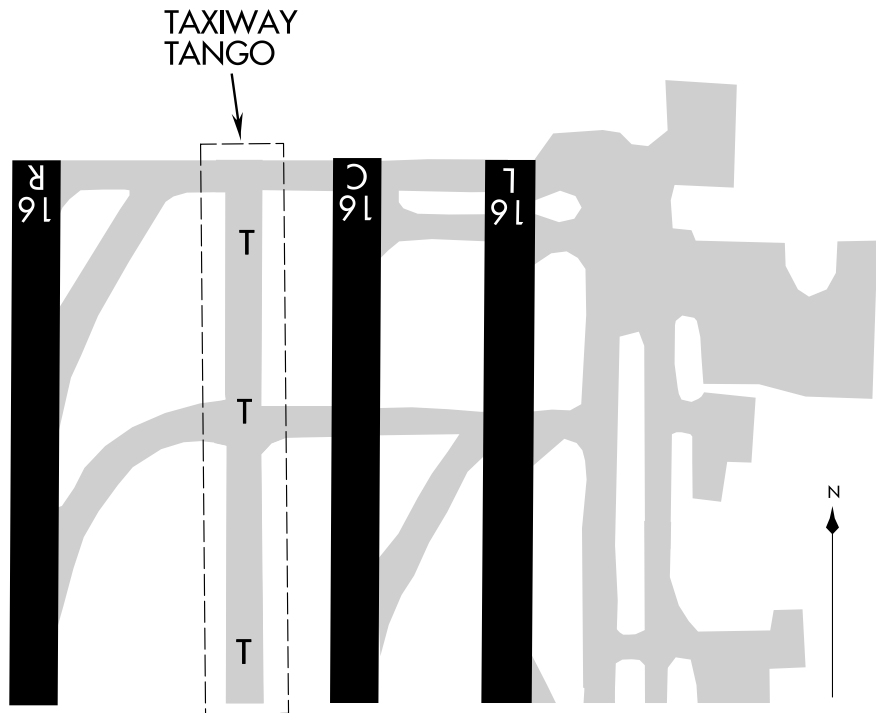
When transitioning from an instrument procedure to a visual approach to Runway 16C, verify that you are aligned for the intended landing Runway, not Taxiway Tango. Taxiway Tango is west and parallel to Runway 16C.

TRANSITION TO VISUAL:

Taxiway Tango has been mistaken for Runway 16C from the air during certain visibility conditions, i.e., wet runway, low sun angle reflections. Aircrews are advised to be aware of the proximity of the taxiway to Runway 16C and its runway-like appearance while on approach.

RECOMMENDATION:

Aircrews should use visual cues, e.g., approach lighting systems, REILs, when available, to confirm alignment with Runway 16C not Taxiway Tango. Additionally, it is recommended to track the localizer until the runway environment is visually verified.



ILS or LOC RWY 16C
SEATTLE-TACOMA INTL (SEA)

MISSED APPROACH: Climb heading 160° and SEA VORTAC R-161 to cross TEBNE/SEA 2.4 DME/RADAR at or below 2000, then climb to 5000 via SEA VORTAC R-161 to MILLT INT/SEA 11 DME/RADAR and hold, continue climb-in-hold to 5000.

DME or RADAR REQUIRED

Procedure NA for arrivals at PAE
VOR/DME via V23 northbound.

IAF PAINE
110.6 PAE ::= Chan 43

*6000 167° (9.9)

R-167 (IF)
WEMAT
I-SZI 18.2
PAE 10.9
RADAR

ERYKA
I-SZI 15.3
RADAR

MGNM
I-SZI 12.4
RADAR

ANVIL
I-SZI 10
RADAR

SODOE
I-SZI 6.1
RADAR

Boeing Field/
King County Intl

529± IM

SEATTLE
116.8 SEA ::= Chan 115

LOCALIZER 111.7
I-SZI ::= Chan 54

MISSED APCH FIX
ALTERNATE MISSED APCH FIX
MC CHORD TCM 109.6 Chan 33
R-074 254° 074°

MISSED APCH FIX
MILLT INT SEA 11 RADAR
Chan 115 116.8 SEA 116.1° 34° 225°

MSA SEA 25 NM
081° 070° 340° 220°
[3400] [6400] [2200]

10 NM

1729 Δ

Δ 2160 Δ 3149
• 2040 • 3020

HIRL all Rwyws

	FAF to MAP 4.4 NM				
Knots	60	90	120	150	180
Min:Sec	4:24	2:56	2:12	1:46	1:28

[illegible]

CATEGORY	A	B	C	D
S-ILS 16C		630/18	200 (200-½)	
S-LOC 16C		760/24	330 (400-½)	760/40 330 (400-¾)
SIDESTEP 16L	760/50	327 (400-1)	760-1½ 327 (400-1½)	760-2 327 (400-2)
CIRCLING 16C	1000-1	567 (600-1)	1000-1½ 567 (600-1½)	1000-2 567 (600-2)

SEATTLE-TACOMA INTL AIRPORT**ALERT NOTICE****ATTENTION ALL AIRCRAFT LANDING TO THE SOUTH:**

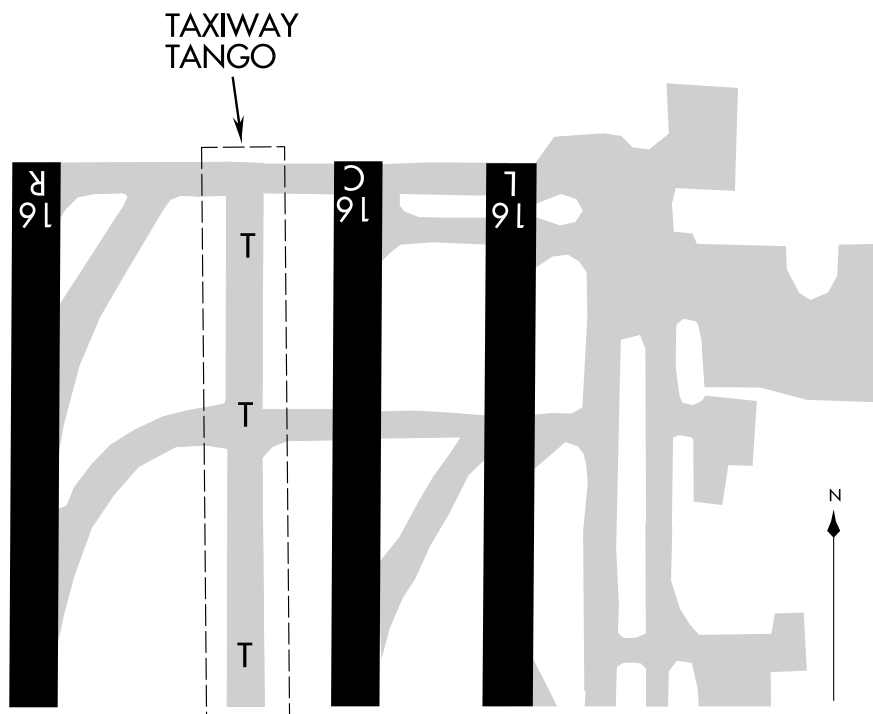
When transitioning from an instrument procedure to a visual approach to Runway 16C, verify you are aligned for the intended landing Runway, not Taxiway Tango. Taxiway Tango is west and parallel to Runway 16C.

TRANSITION TO VISUAL:

Taxiway Tango has been mistaken for Runway 16C from the air during certain visibility conditions, i.e., wet runway, low sun angle reflections. Aircrews are advised to be aware of the proximity of the taxiway to Runway 16C and its runway-like appearance while on approach.


RECOMMENDATION:

Aircrews should use visual cues, e.g., approach lighting systems, REILs, when available, to confirm alignment with Runway 16C not Taxiway Tango. Additionally, it is recommended when executing a segment of the ILS approach for a visual transition, track the localizer until the runway environment is visually verified.

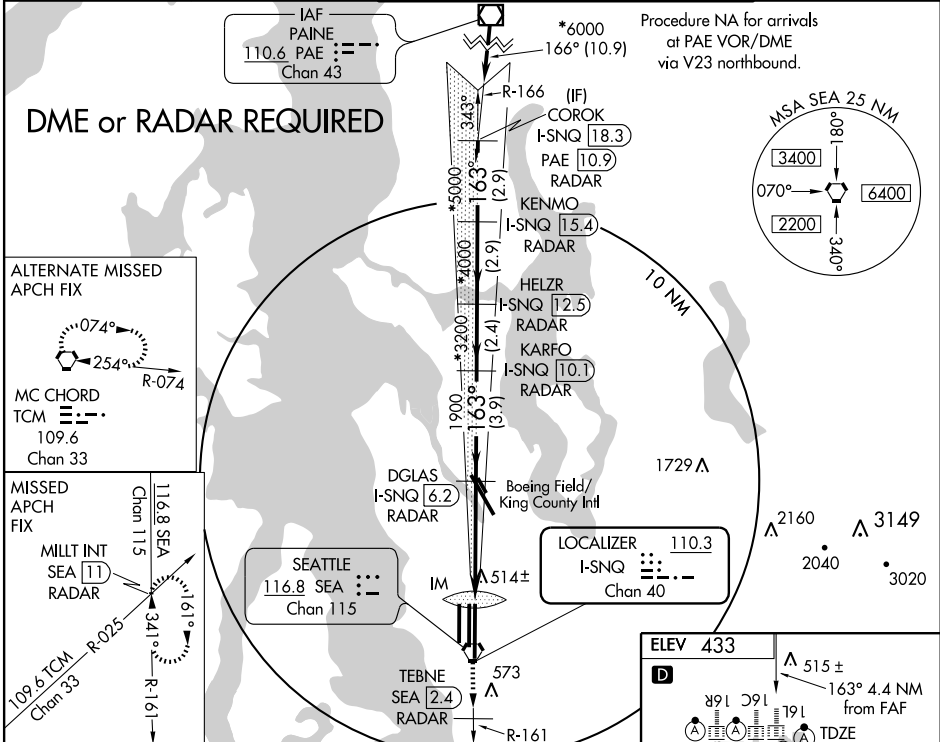


LOC/DME I-SNQ <u>110.3</u> Chan 40	APP CRS 163°	Rwy Idg 11901 TDZE 433 Apt Elev 433
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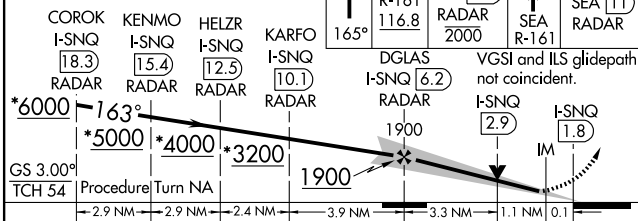
ILS or LOC RWY 16L
SEATTLE-TACOMA INTL (SEA)

V DME or RADAR required. For inoperative ALSF-2, increase S-ILS 16L Cat. A visibility to RVR 5000.		ALSF-2 	MISSED APPROACH: Climb heading 165° and SEA VORTAC R-161 to cross TEBNE/SEA 2.4 DME/RADAR at or below 2000, then climb to 5000 via SEA VORTAC R-161 to MILLT INT/ SEA 11 DME/RADAR and hold, continue climb-in-hold to 5000.	
ATIS 118.0	SEATTLE APP CON 133.65 273.45	SEATTLE TOWER 119.9 239.3 (Rwys 16C/34C, 16L/34R) 120.95 239.3 (Rwy 16R/34L)		GND CON 121.7

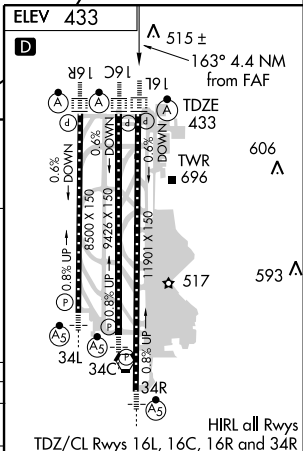
DME or RADAR REQUIRED



* When assigned by ATC, intercept glidepath at 3200 or 4000 or 5000 or 6000.



CATEGORY	A	B	C	D
S-ILS 16L	695/18 262 (300-½)	633/18 200 (200-½)		
S-LOC 16L	880/24 447 (500-½)		880/40 447 (500-¾)	880/50 447 (500-1)
CIRCLING	1000-1 567 (600-1)		1000-1½ 567 (600-½)	1000-2 567 (600-2)



FAF to MAP 4.4 NM

Knots	60	90	120	150	180
Min:Sec	4:24	2:56	2:12	1:46	1:28

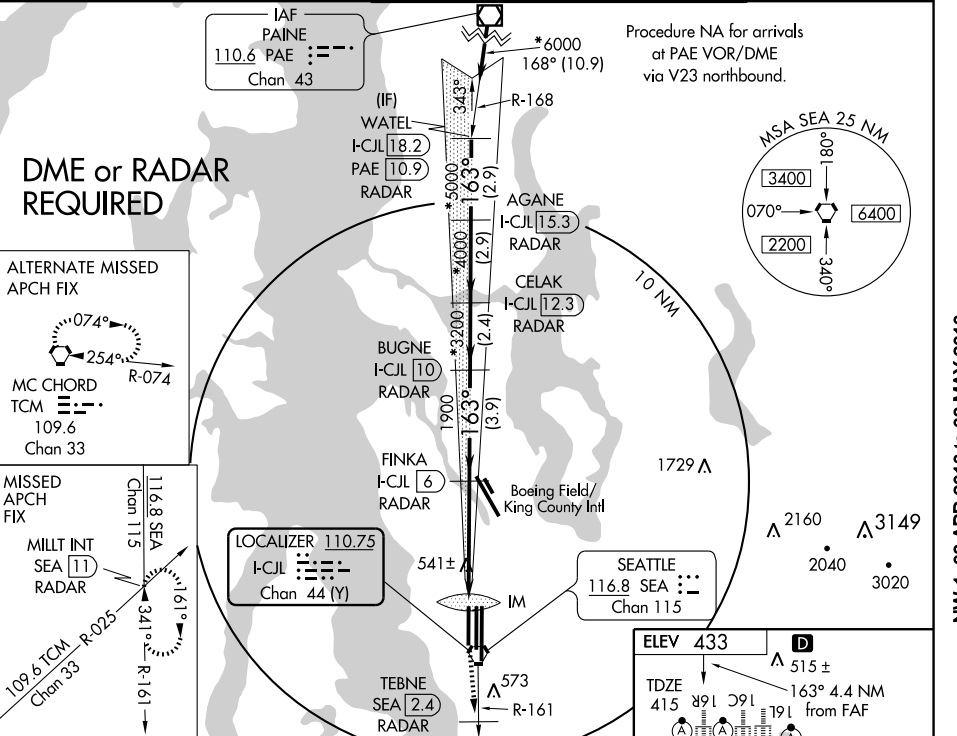
▼

DME or RADAR required.

ALSF-2

MISSED APPROACH: Climb heading 158° and SEA VORTAC R-161 to cross TEBNE/SEA 2.4 DME/RADAR at or below 2000, then climb to 5000 via SEA VORTAC R-161 to MILIT INT/SEA 11 DME/RADAR and hold, continue climb-in-hold to 5000.

ATIS 118.0	SEATTLE APP CON 133.65 273.45	SEATTLE TOWER 119.9 239.3 (Rwys 16C/34C, 16L/34R) 120.95 239.3 (Rwy 16R/34L)	GND CON 121.7
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DME or RADAR REQUIRED

ALTERNATE MISSED APCH FIX

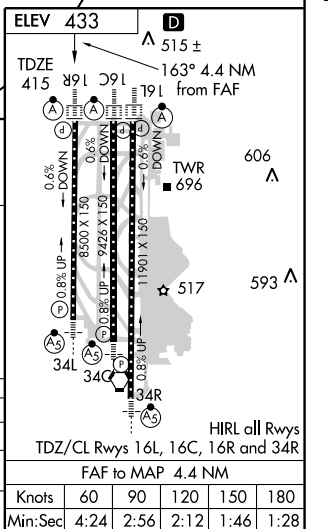
MC CHORD TCM 109.6 Chan 33

MISSED APCH FIX

MILIT INT SEA 11 RADAR

109.6 TCM R-025 Chan 33

*When assigned by ATC, intercept glidepath at 3200 or 4000 or 5000 or 6000.				SEA R-161 116.8	TEBNE SEA 2.4 RADAR 2000	5000 SEA R-161	MILIT INT SEA 11 RADAR
Procedure Turn NA	WATEL I-CJL 18.2 RADAR	AGANE I-CJL 15.3 RADAR	CELAK I-CJL 12.3 RADAR	BUGNE I-CJL 10 RADAR	FINKA I-CJL 6 RADAR	VGSI and ILS glidepath not coincident.	
*6000 *5000 *4000 *3200				1900	1900	IM	
GS 3.00° TCH 55'				2.9 NM	2.9 NM	2.4 NM	3.9 NM
CATEGORY	A		B		C		D
S-ILS 16R			615/18		200 (200-½)		
S-LOC 16R			800/24		385 (400-½)		800/40 385 (400-¾)
CIRCLING	1000-1 567 (600-1)		1000-1½ 567 (600-1½)		1000-2 567 (600-2)		



NW-1, 08 APR 2010 to 06 MAY 2010

For inoperative MALSR, increase SIDESTEP 34R Cats. A and B visibility to RVR 6000.

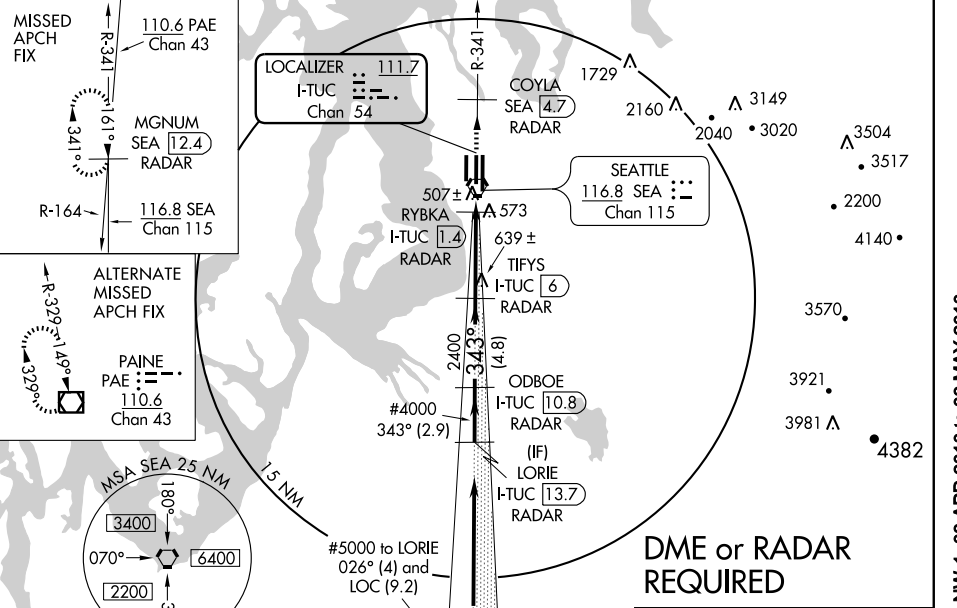
* RVR 1800 authorized with the use of FD or AP or HUD to DA.

DME or RADAR required.

MALSR
Rwy 34C/R

MISSED APPROACH: Climb heading 345° and SEA VORTAC R-341 to cross COYLA/SEA 4.7 DME/RADAR at or below 2000, then climb to 5000 via SEA VORTAC R-341 to MGNUM/SEA 12.4 DME/RADAR and hold, continue climb-in-hold to 5000.

ATIS 118.0	SEATTLE APP CON 133.65 273.45	SEATTLE TOWER 119.9 239.3 (Rwys 16C/34C, 16L/34R) 120.95 239.3 (Rwy 16R/34L)	GND CON 121.7
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Procedure NA for arrivals at CIDUG via V495 southbound.

CATEGORY	A	B	C	D
S-ILS 34C	* 587/24 200 (200-½)			
S-LOC 34C	760/24	373 (400-½)	760/40	373 (400-¾)
SIDESTEP 34R	760/50	388 (400-1)	760/60	760-1¾
			388 (400-1¼)	388 (400-1¾)
CIRCLING	1000-1	567 (600-1)	1000-1½	1000-2
			567 (600-1½)	567 (600-2)

ELEV 433

A 515 ±

343° 6.1 NM from FAF

TDZ/CL Rwy 16L, 16C, 16R and 34R

FAF to MAP 5.6 NM

Knots	60	90	120	150	180
Min:Sec	5:36	3:44	2:48	2:14	1:52

NW-1, 08 APR 2010 to 06 MAY 2010

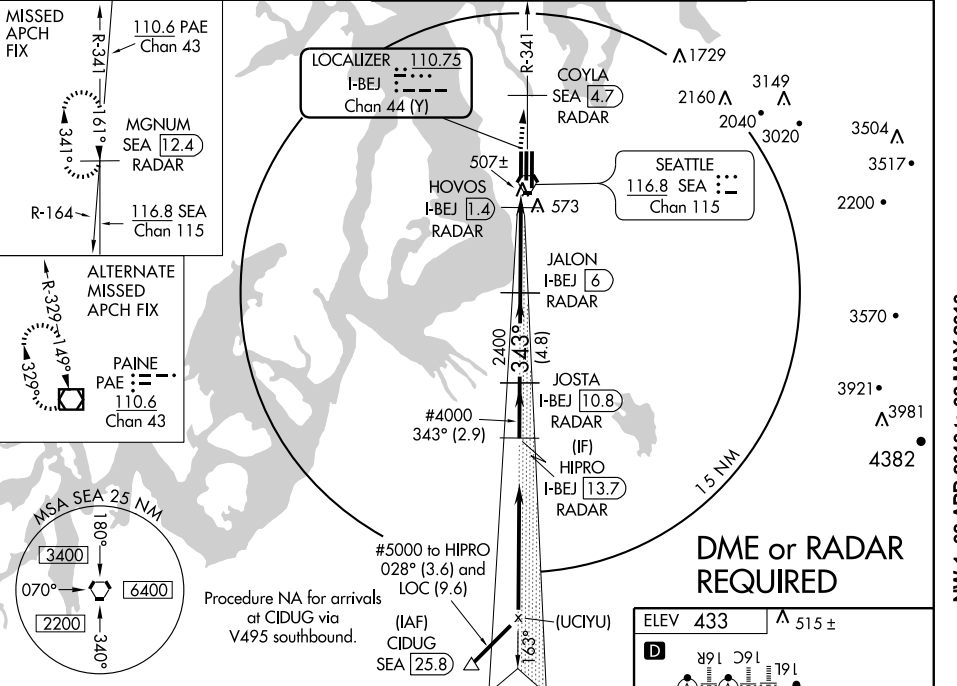
LOC/DME I-BEJ	APP CRS	Rwy Idg	8500
110.75	343°	TDZE	379
Chan 44 (Y)		Apt Elev	433

DME or RADAR required.
* RVR 1800 authorized with the use of
FD or AP or HUD to DA.

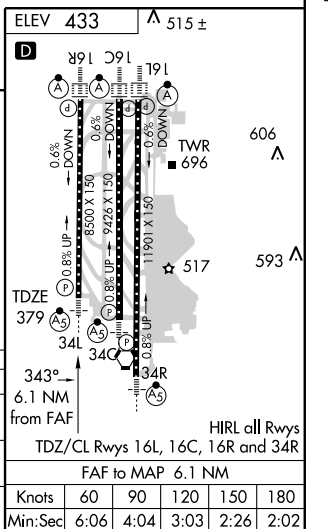
MALSR

MISSED APPROACH: Climb heading 348° and SEA VORTAC R-341 to cross COYLA/SEA 4.7 DME/RADAR at or below 2000, then climb to 5000 via SEA VORTAC R-341 to MGNUM/SEA 12.4 DME/ RADAR and hold, continue climb-in-hold to 5000.

ATIS 118.0	SEATTLE APP CON 133.65 273.45	SEATTLE TOWER 119.9 239.3 (Rwys 16C/34C, 16L/34R) 120.95 239.3 (Rwy 16R/34L)	GND CON 121.7
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	SEA R-341 SEA 116.8 RADAR 2000	COYLA SEA 4.7 RADAR 2000	5000 SEA R-341 SEA 12.4 RADAR	MGNUM SEA 12.4 RADAR	# When assigned by ATC, intercept glidepath at 5000 or 4000.	JALON I-BEJ 6 RADAR	HOVOS I-BEJ 1.4 RADAR	JOSTA I-BEJ 10.8 RADAR	HIPRO I-BEJ 13.7 RADAR	Procedure Turn NA
↑ 348°	↑ 348°	↑ 348°	↑ 348°	↑ 348°	↑ 348°	↑ 348°	↑ 348°	↑ 348°	↑ 348°	↑ 348°
VGSI and ILS glidepath not coincident. † LOC only										
	1 NM	0.5	4.6 NM	4.8 NM	2.9 NM					
CATEGORY	A	B	C	D						
S-ILS 34L	* 579/24 200 (200-½)									
S-LOC 34L	760/24 381 (400-½)					760/40 381 (400-¾)				
CIRCLING	1000-1 567 (600-1)		1000-1½ 567 (600-1½)		1000-2 567 (600-2)					

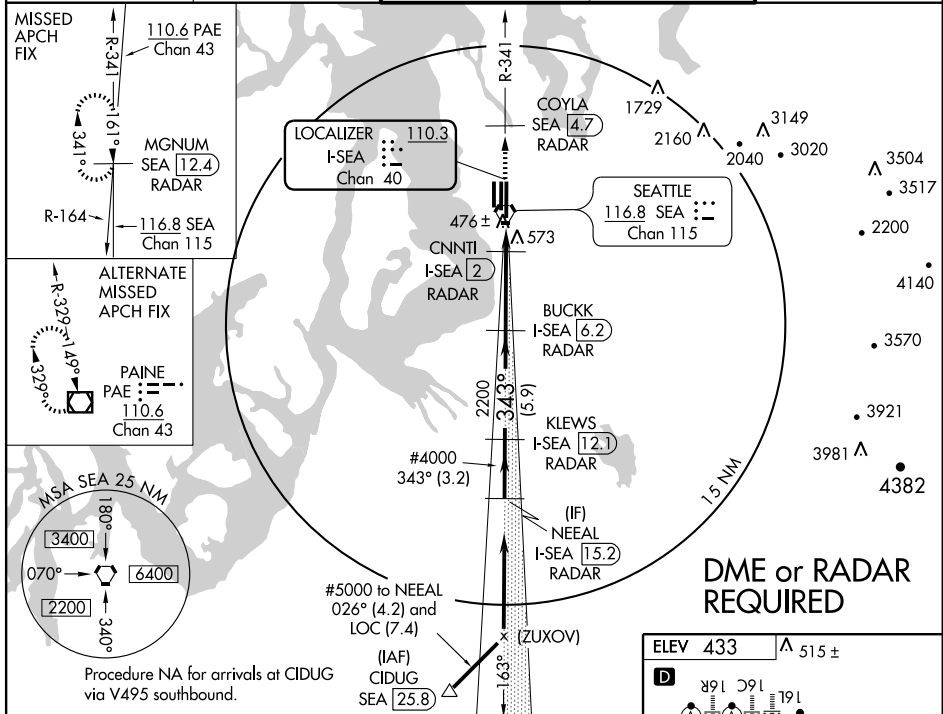



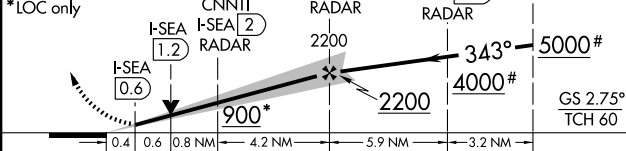
NW-1, 08 APR 2010 to 06 MAY 2010

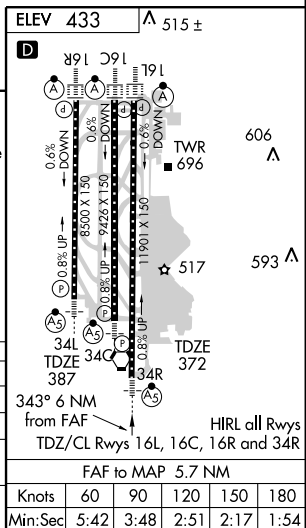
LOC/DME I-SEA 110.3 Chan 40	APP CRS 343°	Rwy 34R Idg 11901 TDZE 372 Apt Elev 433	Rwy 34C Idg 9426 TDZE 387 Apt Elev 433
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ILS or LOC RWY 34R
SEATTLE-TACOMA INTL (SEA)

▼ Inoperative table does not apply to SIDESTEP 34C, Cats. A and B. DME or RADAR required.	MALSR Rwy 34R/C 	MISSED APPROACH: Climb heading 341° and SEA VORTAC R-341 to cross COYLA/SEA 4.7 DME/RADAR at or below 2000, then climb to 5000 via SEA VORTAC R-341 to MGNUM/SEA 12.4 DME/RADAR and hold, continue climb-in-hold to 5000.	
		SEATTLE TOWER 119.9 239.3 (Rwys 16C/34C, 16L/34R) 120.95 239.3 (Rwy 16R/34L)	GND CON 121.7
ATIS 118.0	SEATTLE APP CON 133.65 273.45		



 <p>341°</p>	<p>SEA R-341 116.8</p>	<p>COYLA SEA 4.7 RADAR 2000</p>	<p>5000 SEA R-341 SEA 12.4 RADAR</p>	<p>Use I-SEA DME when on the localizer course. # When assigned by ATC, intercept glidepath at 4000 or 5000.</p>
<p>VGSI and ILS glidepath not coincident.</p>				
<p>*LOC only</p>				
				
CATEGORY	A B C D			
S-ILS 34R	572/18 200 (200-½)			
S-LOC 34R	720/24 348 (300-½)			
SIDESTEP 34C	760/50 373 (400-1)			760-1½ 373 (400-1½)
CIRCLING	1000-1 567 (600-1)		1000-2 567 (600-1½) 567 (600-2)	

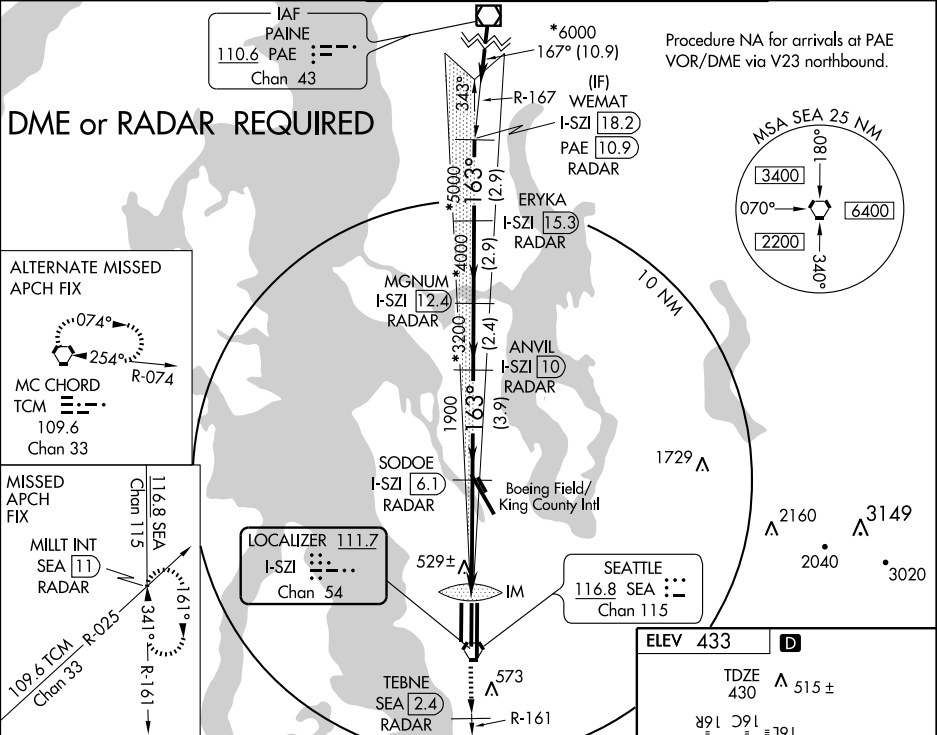


LOC/DME I-SZI 111.7 Chan 54	APP CRS 163°	Rwy Idg TDZE Apt Elev	9426 430 433
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ILS RWY 16C (CAT II)
SEATTLE-TACOMA INTL (SEA)

DME or RADAR required.	ALSF-2 	MISSED APPROACH: Climb heading 160° and SEA VORTAC R-161 to cross TEBNE/SEA 2.4 DME/RADAR at or below 2000, then climb to 5000 via SEA VORTAC R-161 to MILIT INT/SEA 11 DME/RADAR and hold, continue climb-in-hold to 5000.
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ATIS 118.0	SEATTLE APP CON 133.65 273.45	SEATTLE TOWER 119.9 239.3 (Rwys 16C/34C, 16L/34R) 120.95 239.3 (Rwy 16R/34L)	GND CON 121.7
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* When assigned by ATC, intercept glidepath at 3200 or 4000 or 5000 or 6000.					SEA R-161 116.8	TEBNE SEA 2.4 RADAR 2000	5000 SEA R-161	MILIT INT SEA 11 RADAR
WEMAT I-SZI 18.2 RADAR	ERYKA I-SZI 15.3 RADAR	MGNUM I-SZI 12.4 RADAR	ANVIL I-SZI 10 RADAR	SODOE I-SZI 6.1 RADAR	VGSI and ILS glidepath not coincident.			
Procedure Turn NA					DH RA 126			
*6000					430 MSL			
GS 3.00° TCH 57					IM			
-2.9 NM					-1120'			
CATEGORY A					CATEGORY D			
S-ILS 16C					RA 126/12 100 DA 530			

CATEGORY II ILS - SPECIAL AIRCREW & AIRCRAFT CERTIFICATION REQUIRED

HIRL all Rwys
TDZ/CL Rwys 16L, 16C, 16R and 34R

LOC/DME I-SZ 111.7 Chan 54	APP CRS 163°	Rwy Idg 9426 TDZE 430 Apt Elev 433
--	------------------------	---

ILS RWY 16C (CAT III)
SEATTLE-TACOMA INTL (SEA)

DME or RADAR required.

ALSF-2

MISSED APPROACH: Climb heading 160° and SEA VORTAC R-161 to cross TEBNE/SEA 2.4 DME/RADAR at or below 2000, then climb to 5000 via SEA VORTAC R-161 to MILLT INT/SEA 11 DME/RADAR and hold, continue climb-in-hold to 5000.

ATIS
118.0

SEATTLE APP CON
133.65 273.45

SEATTLE TOWER
119.9 239.3 (Rwys 16C/34C, 16L/34R)
120.95 239.3 (Rwy 16R/34L)

GND CON
121.7

DME or RADAR REQUIRED
CATEGORY III SPECIAL
AUTOLAND EVALUATION
REQUIRED

ALTERNATE MISSED
APCH FIX

MC CHORD
TCM $\Xi \cdot \Xi \cdot$
109.6
Chan 33

LOCALIZER 111.
I-SZI $\frac{\cdot}{\cdot} \frac{\cdot}{\cdot} - ..$
Chan 54

SEATTLE
116.8 SEA :
Chn 115

Procedure NA for arrivals at PAE
VOR/DME via V23 northbound.

ELEV 433	D
----------	---

* When assigned by ATC, intercept glidepath at 3200 or 4000 or 5000 or 6000.

160°

SEA R-161 116.8

TEBNE SEA RADAR 2.4 2000

5000 SEA R-161

MILIT INT SEA RADAR 11

SODOE I-SZI RADAR 6.1

VGSJ and ILS glidepath not coincident.

IM

1900

534

430 MSL

1900

Procedure	WEMAT I-SZI RADAR	ERYKA I-SZI RADAR	MGUNM I-SZI RADAR
Turn NA	18.2	15.3	12.4
	*6000	*5000	*4000
GS 3.00°	163°		
TCH 57			*32

	2.9 NM	2.9 NM	2.4 NM	3.9 NM	4.3 NM	904	1120
CATEGORY	A		B		C		D
S-ILS 16C			CAT IIIa	RVR 07			
S-ILS 16C			CAT IIIb	RVR 03			
S-ILS 16C			CAT IIIc	NA			

CATEGORY III ILS - SPECIAL AIRCREW
& AIRCRAFT CERTIFICATION REQUIRED

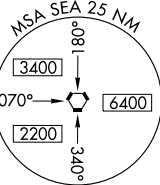
HIRL all Rwys
TDZ/CL Rwys 16L, 16C, 16R and 34R

ILS RWY 16L (CAT III)
SEATTLE-TACOMA INTL (SEA)

MISSED APPROACH: Climb heading 165° and SEA VORTAC R-161 to cross TEBNE/SEA 2.4 DME/RADAR at or below 2000, then climb to 5000 via SEA VORTAC R-161 to MILLT INT/SEA 11 DME/RADAR and hold, continue climb-in-hold to 5000.

DME or RADAR REQUIRED
CATEGORY III SPECIAL
AUTOLAND EVALUATION
REQUIRED

Procedure NA for arrivals
at PAE VOR/DME
via V23 northbound.



MISSED APCH FIX

FLA
MILLT IN
SEA 1
RADAR

SEATTLE
6.8 SEA :
Chan 115

LOCALIZER 110.3
I-SNQ
Chan 40

ELEV 433

W 433 **D**
A 515 +

* When assigned by ATC, intercept glidepath at 3200 or 4000 or 5000 or 6000.

COROK	KENMO	HELZR	KARFO
I-SNQ	I-SNQ	I-SNQ	I-SNQ
18.3	15.4	12.5	10.1
RADAR	RADAR	RADAR	RADAR

*6000 — 163° →

GS 3.00°	<u>*5000</u>	<u>*4000</u>	<u>*3200</u>	1
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TCH 54	Procedure	Turn NA		
	→ 2.9 NM →	→ 2.9 NM →	→ 2.4 NM →	

CATEGORY	A	B
S-11 S 161	NA	

S-ILS 16L	NA	
S-ILS 16L	NA	
S-ILS 16L		

3-ILS 18L	
CATEGORY III ILS -	

↑ 165°	SEA R-161 <u>116.8</u>	TEBNE SEA <u>2.4</u> RADAR 2000	5000 ↑ SEA R-161	MILIT INT SEA <u>11</u> RADAR
DGLAS 1-SNQ <u>6.2</u>		VGSI and ILS glidepath not coincident		

RADAR IM

	C	D
CAT III _a RVR 07		

CAT IIIa	RVR 03
CAT IIIb	RVR 03
CAT IIIc	NA

SPECIAL AIRCREW

ELEV 433

TDZE 433

515 ±

606

593

34L

340

34R

0.6% DOWN

0.8% UP

0.6% DOWN

0.8% UP

0.6% DOWN

0.8% UP

8500 X 150

9224 X 150

11901 X 150

396

433

517

515 ±

LOC/DME I-CJL 110.75 Chan 44 (Y)	APP CRS 163°	Rwy Idg TDZE Apt Elev	8500 415 433
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ILS RWY 16R (CAT III)
SEATTLE-TACOMA INTL (SEA)

DME or RADAR required.		ALSF-2 	MISSED APPROACH: Climb heading 158° and SEA VORTAC R-161 to cross TEBNE/SEA 2.4 DME/RADAR at or below 2000, then climb to 5000 via SEA VORTAC R-161 to MILLT INT/SEA 11 DME/RADAR and hold, continue climb-in-hold to 5000.
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ATIS 118.0	SEATTLE APP CON 133.65 273.45	SEATTLE TOWER 119.9 239.3 (Rwys 16C/34C, 16L/34R) 120.95 239.3 (Rwy 16R/34L)	GND CON 121.7
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DME or RADAR
REQUIRED

CATEGORY III SPECIAL
AUTOLAND
EVALUATION REQUIRED

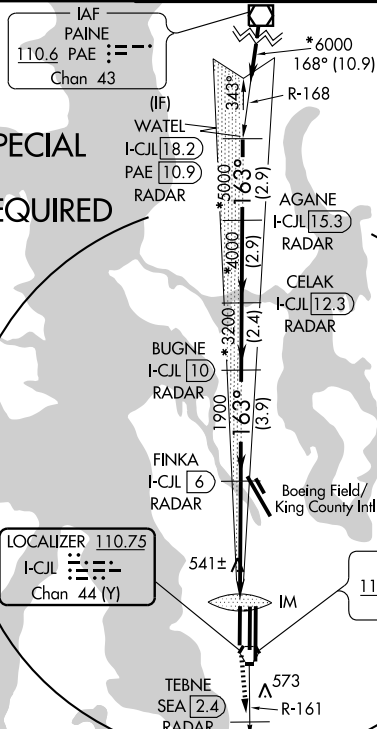
ALTERNATE MISSED
APCH FIX

MC CHORD
TCM
109.6
Chan 33

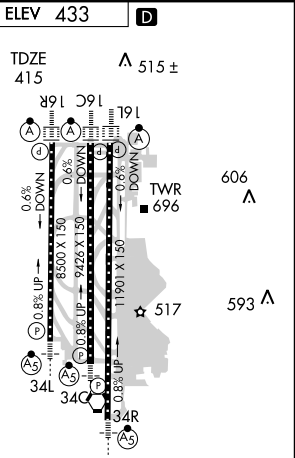
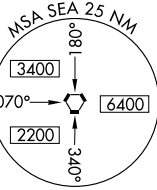
MISSED
APCH
FIX

MILLT INT
SEA 11
RADAR

109.6 TCM R-025
Chan 33



Procedure NA for arrivals
at PAE VOR/DME
via V23 northbound.



* When assigned by ATC, intercept glidepath at 3200 or 4000 or 5000 or 6000.			
Procedure	WATL I-CJL 18.2 RADAR	AGANE I-CJL 15.3 RADAR	CELAK I-CJL 12.3 RADAR
Turn NA			
	*6000	*5000	*4000
GS 3.00°			
TCH 55			
	2.9 NM	2.9 NM	2.4 NM
			3.9 NM
			4.3 NM
			852'
			1148'

CATEGORY	A	B	C	D
S-ILS 16R		CAT IIIa	RVR 07	
S-ILS 16R		CAT IIIb	RVR 03	
S-ILS 16R		CAT IIIc	NA	

CATEGORY III ILS - SPECIAL AIRCREW
& AIRCRAFT CERTIFICATION REQUIRED

HIRL all Rwys
TDZ/CL Rwys 16L, 16C, 16R and 34R

LOC/DME I-TUC <u>111.7</u> Chan 54	APP CRS 343°	Rwy Idg 9426 TDZE 387 Apt Elev 433
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ILS RWY 34C (CAT II)
SEATTLE-TACOMA INTL (SEA)

T Procedure does not meet ICAO standard for ALSF/TDZ/CL lighting systems. Authorization to conduct this approach requires specific OPSSPEC approval or LOA for this Rwy. DME or RADAR required.

MALSR

MISSED APPROACH: Climb heading 345° and SEA VORTAC R-341 to cross COYLA/SEA 4.7 DME/RADAR at or below 2000, then climb to 5000 via SEA VORTAC R-341 to MGNUM/SEA 12.4 DME/RADAR and hold, continue climb-in-hold to 5000.

ATIS
118.0

SEATTLE APP CON
133.65 273.45

SEATTLE TOWER
119.9 239.3 (Rwys 16C/34C, 16L/34R)
120.95 239.3 (Rwy 16R/34L)

GND CON
121.7

LOCALIZER 111.7
I-TUC 54
Chgn 54

COYLA
SEA 4.7

ALTERNATE
MISSED
APCH FIX

PAINE
PAE : - - -
110.6
Chan 43

MSA SEA 25 NM
180

Procedure NA for arrivals at CIDUG
via V495 southbound.

to LORIE
(4) and

DME or RADAR
REQUIRED

ELEV 433

 $\Delta_{515} \pm$

↑ 345°	SEA R-341 <u>116.8</u>	COYLA SEA <u>4.7</u> RADAR <u>2000</u>	5000 ↑ SEA R-341	MGNUM SEA <u>12.4</u> RADAR
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When assigned by ATC, intercept glidepath at 4000 or 5000. LOPIE

VGSI and ILS glidepath not coincident.

I-TUC 6
RADAR

100 10.0
RADAR

LORIE
UC 13.7
RADAR

Procedure

Turn NA

387
MSL

CATEGORY	A	B	C	D
S-ILS 34C	RA 133/12 100 DA 487			

HIRL all Rwys
TDZ/CL Rwys 16L, 16C, 16R and 34R

AL-582 (FAA)

ILS RWY 34L (CAT II)
SEATTLE-TACOMA INTL (SEA)

MALSR

MISSED APPROACH: Climb heading 348° and SEA VORTAC R-341 to cross COYLA/SEA 4.7 DME/RADAR at or below 2000, then climb to 5000 via SEA VORTAC R-341 to MGNUM/SEA 12.4 DME/ RADAR and hold, continue climb-in-hold to 5000.

[illegible]

DME or RADAR
REQUIRED

Diagram illustrating the HIRL (High Intensity Runway Lighting) and TDZE/CL (Touchdown Zone/Center Line) Rwyways for Runways 16L, 16C, and 16R. The diagram shows the layout of the runways, including the TDZE (Touchdown Zone) and CL (Center Line) markings, and the associated lighting systems (HIRL and TDZE/CL). The diagram also indicates the presence of obstructions (A) and the location of the Tower (TWR) and Tower Radar (TR) stations.

Key features and dimensions shown in the diagram:

- Runway 16L: 8500 X 150
- Runway 16C: 9426 X 150
- Runway 16R: 11901 X 150
- Obstruction (A) 515 ±
- Obstruction (A) 606
- Obstruction (A) 593
- TWR (Tower) 696
- TR (Tower Radar) 517
- TDZE (Touchdown Zone) 379
- CL (Center Line) 34L, 34C, 34R
- Obstruction (A) 34L, 34C, 34R

CATEGORY II ILS - SPECIAL AIRCREW
& AIRCRAFT CERTIFICATION REQUIRED

TDZ/CL Rwy 16L, 16C, 16R and 34R HIRL all Rwy

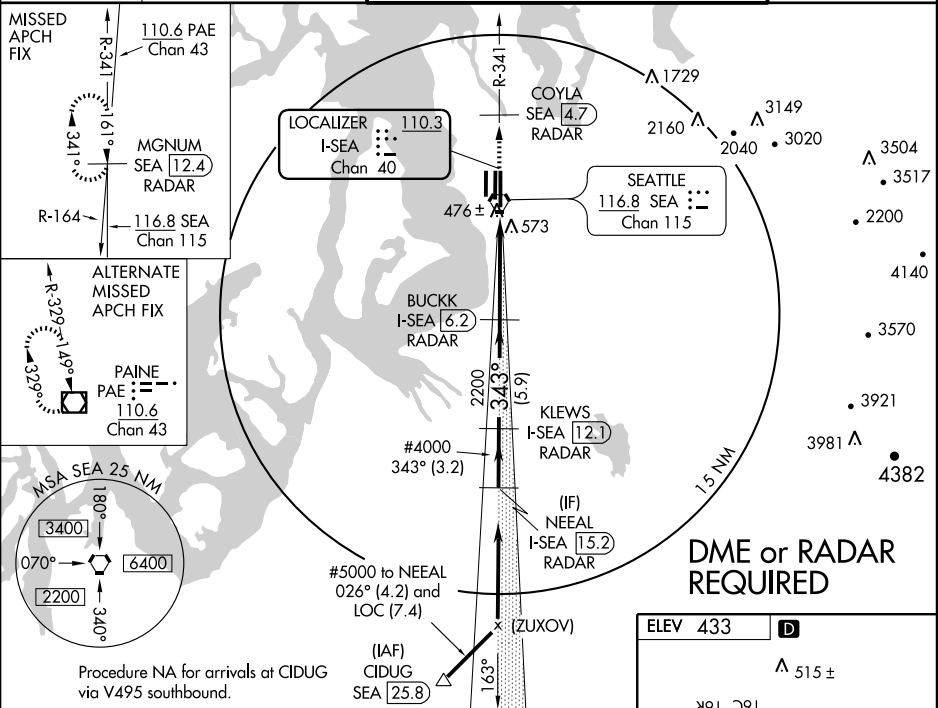
NW-1 08 APR 2010 to 06 MAY 2010

LOC/DME I-SEA 110.3 Chan 40	APP CRS 343°	Rwy Idg TDZE Apt Elev 372 433
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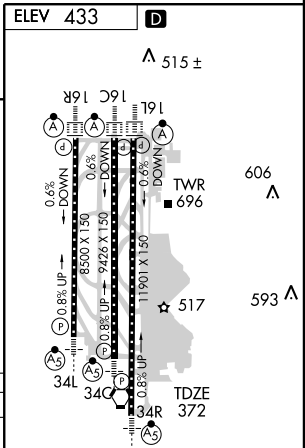
ILS RWY 34R (CAT II)
SEATTLE-TACOMA INTL (SEA)

Procedure does not meet ICAO standard for ALSF/TDZ/CL lighting systems. Authorization to conduct this approach requires specific OPSPPEC approval or LOA for this Rwy. DME or RADAR required.	MALSR 	MISSED APPROACH: Climb heading 341° and SEA VORTAC R-341 to cross COYLA/SEA 4.7 DME/RADAR at or below 2000, then climb to 5000 via SEA VORTAC R-341 to MGNUM/SEA 12.4 DME/RADAR and hold, continue climb-in-hold to 5000.
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ATIS 118.0	SEATTLE APP CON 133.65 273.45	SEATTLE TOWER 119.9 239.3 (Rwys 16C/34C, 16L/34R) 120.95 239.3 (Rwy 16R/34L)	GND CON 121.7
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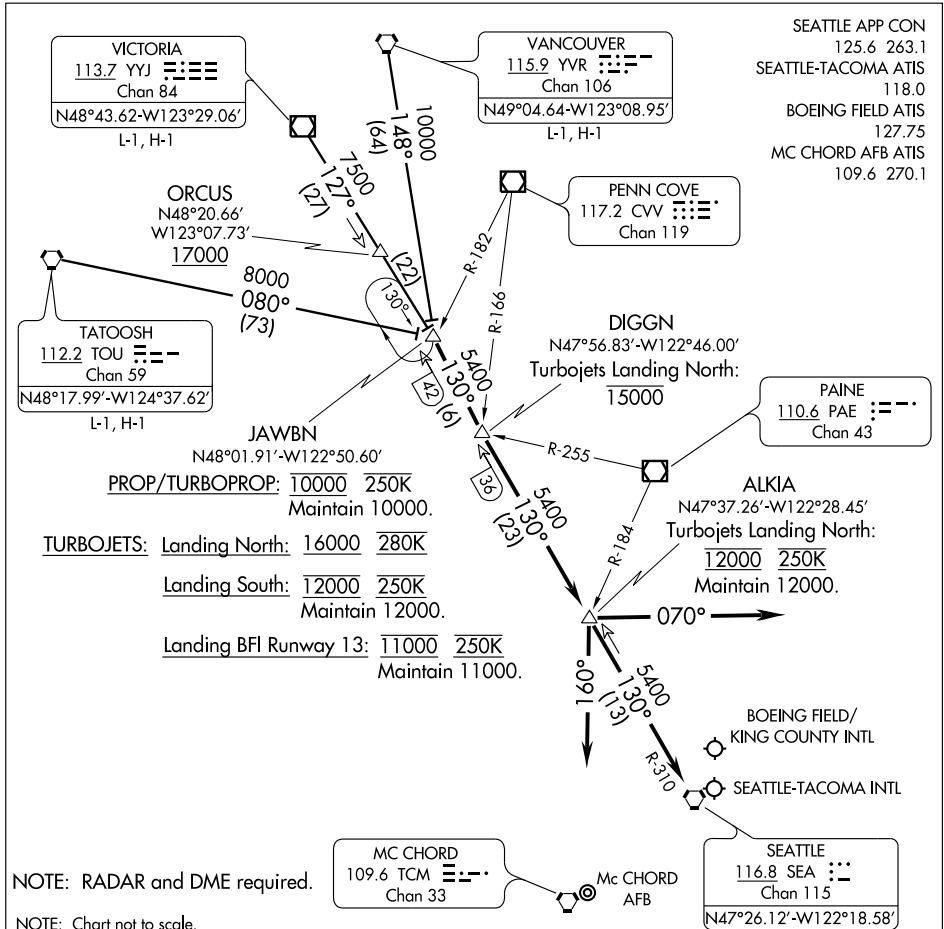


SEA R-341 116.8 341°	COYLA SEA 4.7 RADAR 2000	5000 SEA R-341	MGNUM SEA 12.4 RADAR	Use I-SEA DME when on the localizer course. # When assigned by ATC, intercept glidepath at 4000 or 5000.	NEEAL I-SEA 15.2 RADAR	Procedure Turn NA
VGSI and ILS glidepath not coincident.						
BUCKK I-SEA 6.2 RADAR						
KLEWS I-SEA 12.1 RADAR						
DH RA 200						
372 MSL						
GS 2.75° TCH 60						
CATEGORY	A	B	C	D		
S-ILS 34R	RA 200/12 100 DA 472					



CATEGORY II ILS - SPECIAL AIRCREW & AIRCRAFT CERTIFICATION REQUIRED.

HIRL all Rwys
TDZ/CL Rwys 16L, 16C, 16R and 34R



TATOOSH TRANSITION (TOU.JAWBN1): From over TOU VORTAC via TOU R-080 to JAWBN INT. Thence....

VANCOUVER TRANSITION (YVR.JAWBN1): From over YVR VORTAC via YVR R-148 to JAWBN INT. Thence....

VICTORIA TRANSITION (YYJ.JAWBN1): From over YYJ VOR/DME via YYJ R-127 to JAWBN INT. Thence....

....From over JAWBN INT/SEA 42 DME via SEA R-310 to DIGGN/SEA 36 DME then via SEA R-310 to ALKIA INT/SEA 13 DME, thence....

LANDING NORTH: Depart ALKIA INT heading 160° for vectors to final approach course.

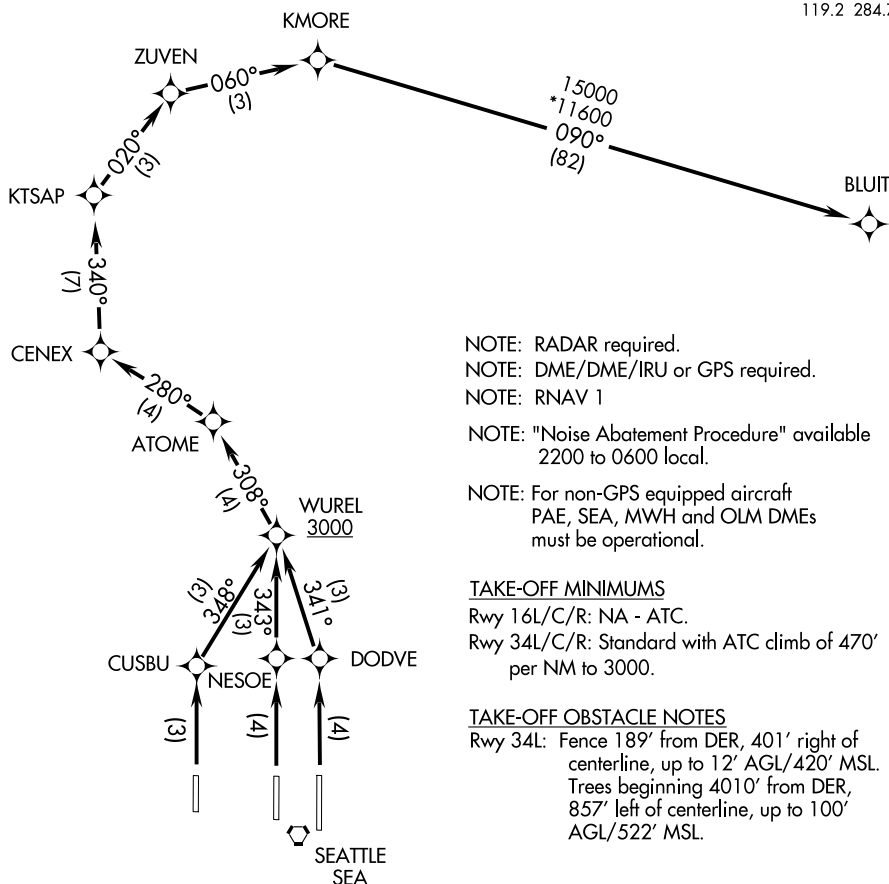
LANDING SOUTH: Depart ALKIA INT heading 070° for vectors to final approach course.

LANDING McCHORD AFB: After ALKIA INT proceed direct SEA VORTAC.

LOST COMMUNICATIONS: After ALKIA INT proceed direct SEA VORTAC.

KMORE TWO DEPARTURE (RNAV)

ATIS
118.0
SEATTLE DEP CON
119.2 284.7



NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 34L: Climb direct CUSBU, then via 348° track to cross WUREL at or above 3000, then via depicted route to BLUIT, thence. . .

TAKE-OFF RUNWAY 34C: Climb direct NESOE, then via 343° track to cross WUREL at or above 3000, then via depicted route to BLUIT, thence. . .

TAKE-OFF RUNWAY 34R: Climb direct DODVE, then via 341° track to cross WUREL at or above 3000, then via depicted route to BLUIT, thence. . .

. . . via assigned route. Maintain assigned altitude, expect filed altitude/flight level 15 NM from SEA VORTAC.

KTSAP THREE DEPARTURE (RNAV)

ATIS

118.0

SEATTLE DEP CON

119.2 284.7

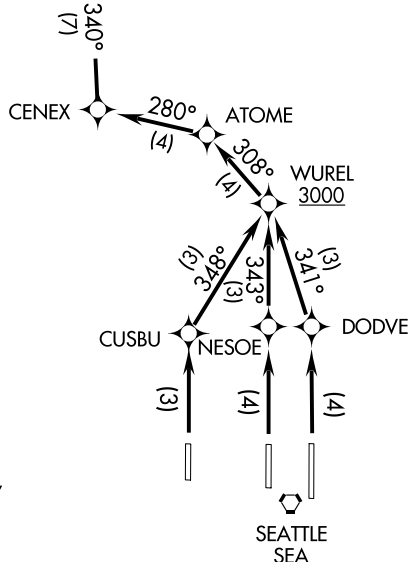
TATOOSH
TOU15000
*9400
274°
(93)

KTSAP

NOTE: RADAR required.

NOTE: DME/DME/IRU or GPS required.

NOTE: RNAV 1

NOTE: "Noise Abatement Procedure" available
2200 to 0600 local.NOTE: For non-GPS equipped aircraft PAE DME
must be operational.

TAKE-OFF MINIMUMS

Rwy 16L/C/R: NA - ATC.

Rwy 34L/C/R: Standard with ATC climb of
470' per NM to 3000.

TAKE-OFF OBSTACLE NOTES

Rwy 34L: Fence 189' from DER, 401' right of centerline,
up to 12' AGL/420' MSL. Trees beginning
4010' from DER, 857' left of centerline, up to
100' AGL/522' MSL.


NOTE: Chart not to scale.


DEPARTURE ROUTE DESCRIPTION


TAKE-OFF RUNWAY 34L: Climb direct CUSBU, then via 348° track to cross WUREL at or above 3000, then via depicted route to TOU VORTAC, thence. . .TAKE-OFF RUNWAY 34C: Climb direct NESOE, then via 343° track to cross WUREL at or above 3000, then via depicted route to TOU VORTAC, thence. . .TAKE-OFF RUNWAY 34R: Climb direct DODVE, then via 341° track to cross WUREL at or above 3000, then via depicted route to TOU VORTAC, thence. . .

. . . via assigned route. Maintain assigned altitude, expect filed altitude/flight level 15 NM from SEA VORTAC.

ATIS
118.0
SEATTLE DEP CON
119.2 284.7



VANCOUVER
115.9 YVR 
Chan 106
N49°04.64'
W123°08.95'
[-] [-]


PRINCETON
113.9 YDC 
Chan 86
N49°22.89'
W120°22.42'


CRANBROOK
112.1 YXC 
Chan 58
N49°33.30'
W116°05.27'
H-1


WHATCOM
113.0 HUH ::
Chan 77
N48°56.72'
W122°34.76'

PAINE
110.6 PAE : = - .
Chan 43
N47°55.19'
W122°16.67'
[-] [-]


SPOKANE
115.5 GEG 
Chan 102
N47°33.90'
W117°37.61'


EPHRATA
112.6 EPH 
Chan 73
N47°22.68'
W119°25.44'
L-13, H-1


MULLAN PASS
117.8 MLP 
Chan 125
N47°27.41'
W115°38.76'
[-13 H-]

MOSES LAKE
115.0 MWH 
Chan 97
N47°12.65'
W119°19.01'
[-13. H-]

SEATTLE
116.8 SEA :
Chan 115
N47°26.12'
W122°18.58'
[-], [-]

ELLENSBURG
117.9 ELN 
Chan 126
N47°01.46'
W120°27.51'
[13 H]

YAKIMA
116.0 YKM $\Xi \Xi \Xi$
Chan 107
N46°34.22'
W120°26.68'
L-13, H-1

PASCO
108.4 PSC 
Chan 21
N46°15.78'
W119°06.94'
I-13

NEZUG
N47°34.13'
W122°18.58'
4000

NICHY
N47°21.13'
W122°18.58'
3000

NOTE: RADAR and DME required.

TAKE-OFF MINIMUMS

Rwys 16L/C/R, 34 L/C/R: Standard.

Rwy 16L: ATC climb of 560' per NM to 3000.

Rwy 16C: ATC climb of 515' per NM to 3000.

Rwy 16R: ATC climb of 500' per NM to 3000.

Rwys 34L/C/R: ATC climb of 580' per NM to 4000.

(NARRATIVE ON FOLLOWING PAGE)

NOTE: Chart not to scale.

NW-1. 08 APR 2010 to 06 MAY 2010



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 16L: Climb heading 164° and SEA R-161 to cross NICHY at or above 3000, then left turn heading 070° for radar vectors to assigned route, thence. . . .

TAKE-OFF RUNWAYS 16C/R: Climb heading 160° and SEA R-161 to cross NICHY at or above 3000, then left turn heading 070° for radar vectors to assigned route, thence. . . .

TAKE-OFF RUNWAY 34L: Climb heading 346° and SEA R-341 to cross NEZUG at or above 4000, then right turn heading 070° for radar vectors to assigned route, thence. . . .

TAKE-OFF RUNWAY 34C: Climb heading 343° and SEA R-341 to cross NEZUG at or above 4000, then right turn heading 070° for radar vectors to assigned route, thence. . . .

TAKE-OFF RUNWAY 34R: Climb heading 340° and SEA R-341 to cross NEZUG at or above 4000, then right turn heading 070° for radar vectors to assigned route, thence. . . .

. . . .Maintain assigned altitude, expect filed altitude/flight level 15 NM from SEA.

LOST COMMUNICATIONS: If no contact with ATC leaving 4000', proceed direct SEA VORTAC, then proceed on course.

TAKE-OFF OBSTACLE NOTES

Rwy 16L: Trees beginning 2908' from DER, 1064' right of centerline, up to 100' AGL/476' MSL.

Rwy 16C: Trees beginning 4477' from DER, 484' right of centerline, up to 100' AGL/507' MSL.

Rwy 16R: Trees, antenna on building and light pole beginning 488' from DER, 436' left of centerline, up to 100' AGL/507' MSL. Trees beginning 1137' from DER, 587' right of centerline, up to 100' AGL/468' MSL.

Rwy 34L: Fence 189' from DER, 401' right of centerline, up to 12' AGL/468' MSL.

Trees beginning 4010' from DER, 857' left of centerline, up to 100' AGL/522' MSL.

OLYMPIA SIX ARRIVAL

ST-582 (FAA)

SEATTLE, WASHINGTON

SEATTLE APP CON

125.6 263.1

SEATTLE-TACOMA ATIS

118.0

BOEING FIELD ATIS

127.75

BOEING FIELD/
KING COUNTY INTL

SEATTLE-TACOMA INTL

SEATTLE
116.8 SEA
Chan 115
N47°26.12'-W122°18.58'

MC CHORD
109.6 TCM
Chan 33

OLYMPIA
113.4 OLM
Chan 81
N46°58.30'-W122°54.11'

PROP/TURBOPROP: 10000 250K
Maintain 10000.

TURBOJETS: Landing North: 12000 250K
Maintain 12000.

Landing South: 17000 280K

BATTLE GROUND
116.6 BTG
Chan 113
N45°44.87'-W122°35.49'
L-1, H-1

NEWBERG
117.4 UBG
Chan 121
N45°21.19'-W122°58.69'
L-1, H-1

NOTE: Chart not to scale.

NOTE: RADAR and DME required.

BATTLE GROUND TRANSITION (BTG.OLM6): From over BTG VORTAC via BTG R-329 and OLM R-151 to OLM VORTAC. Thence....

NEWBERG TRANSITION (UBG.OLM6): From over UBG VOR/DME via UBG R-341 and OLM R-163 to OLM VORTAC. Thence....

....From over OLM VORTAC via OLM R-022 to LACEE/OLM 6 DME, then via OLM R-022 to ARVAD INT/OLM 20 DME, then via OLM R-022 to FOURT INT/OLM 26 DME, thence...

LANDING NORTH: Depart FOURT INT/OLM 26 DME heading 070° for vectors to final approach course.

LANDING SOUTH: Depart FOURT INT/OLM 26 DME heading 340° for vectors to final approach course.

LOST COMMUNICATIONS: From over FOURT INT/OLM 26 DME, proceed direct SEA VORTAC.

WAAS CH 61010 W16B	APP CRS 163°	Rwy Idg 9426 TDZE 430 Apt Elev 433
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RNAV (GPS) RWY 16C

SEATTLE-TACOMA INTL (SEA)

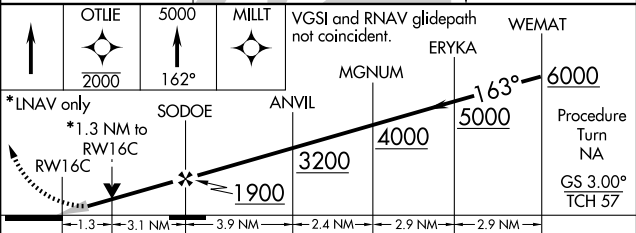
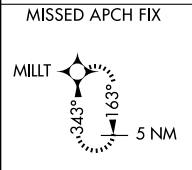
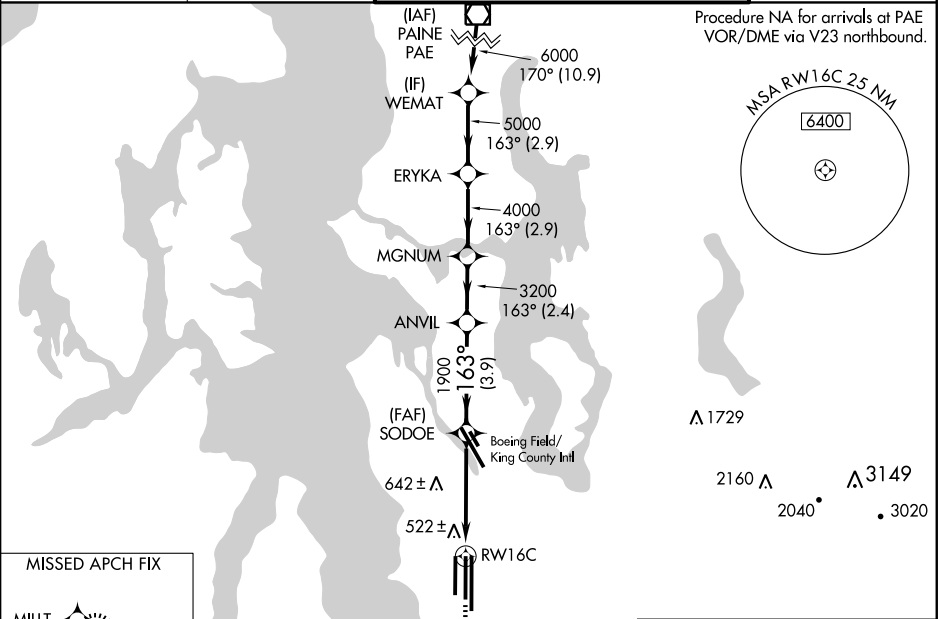
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 47°C (116°F).
DME/DME RNP-0.3 NA.
See additional requirements on adjacent information page.

ALSF-2

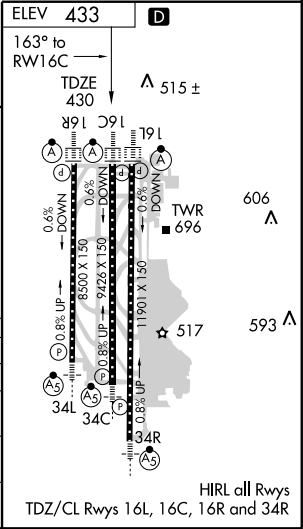


MISSED APPROACH: Climb direct OTLIE to cross OTLIE at or below 2000, then climb to 5000 via track 162° to MILLT and hold, continue climb-in-hold to 5000.

ATIS 118.0	SEATTLE APP CON 133.65 273.45	SEATTLE TOWER 119.9 239.3 (Rwys 16C/34C, 16L/34R) 120.95 239.3 (Rwy 16R/34L)	GND CON 121.7
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CATEGORY	A	B	C	D
LPV DA		630/24	200 (200-1/2)	
LNAV/VNAV DA		811/40	381 (400-3/4)	
LNAV MDA	920/24	490 (500-1/2)	920/40 490 (500-3/4)	920/50 490 (500-1)
CIRCLING	1000-1	567 (600-1)	1000-1 1/2 567 (600-1 1/2)	1000-2 567 (600-2)



SEATTLE-TACOMA INTL AIRPORT**ALERT NOTICE****ATTENTION ALL AIRCRAFT LANDING TO THE SOUTH:**

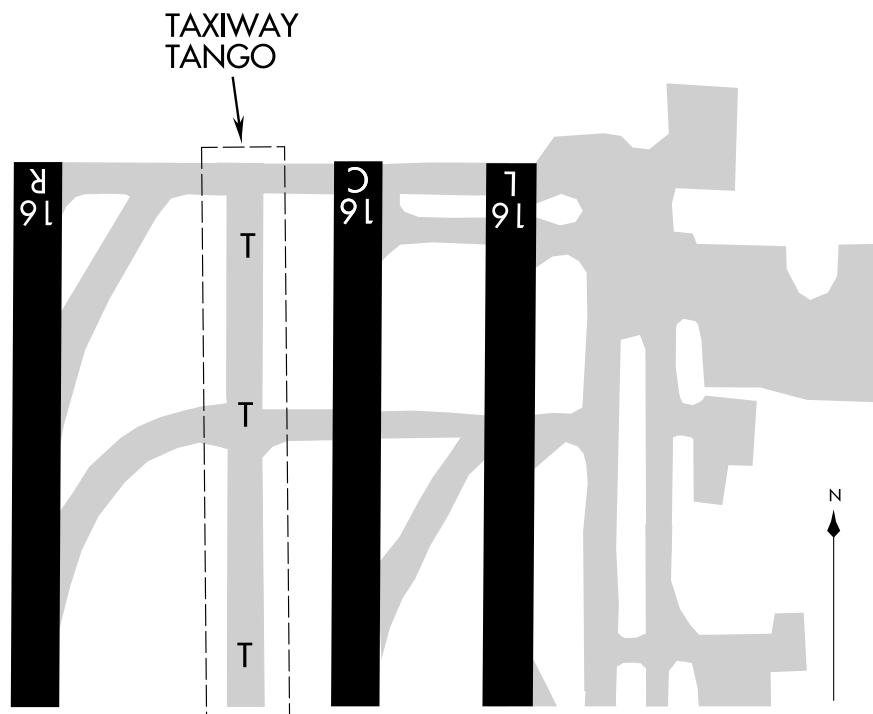
When transitioning from an instrument procedure to a visual approach to Runway 16C, verify you are aligned for the intended landing Runway, not Taxiway Tango. Taxiway Tango is west and parallel to Runway 16C.

TRANSITION TO VISUAL:

Taxiway Tango has been mistaken for Runway 16C from the air during certain visibility conditions, i.e., wet runway, low sun angle reflections. Aircrews are advised to be aware of the proximity of the taxiway to Runway 16C and its runway-like appearance while on approach.

RECOMMENDATION:

Aircrews should use visual cues, e.g., approach lighting systems, REILs, when available, to confirm alignment with Runway 16C not Taxiway Tango. Additionally, it is recommended when executing a segment of the ILS approach for a visual transition, track the localizer until the runway environment is visually verified.



RNAV (GPS) RWY 16L

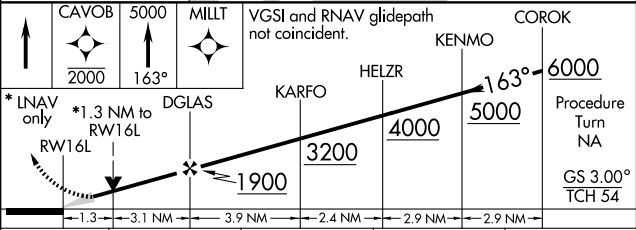
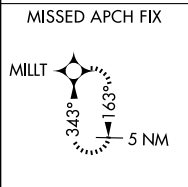
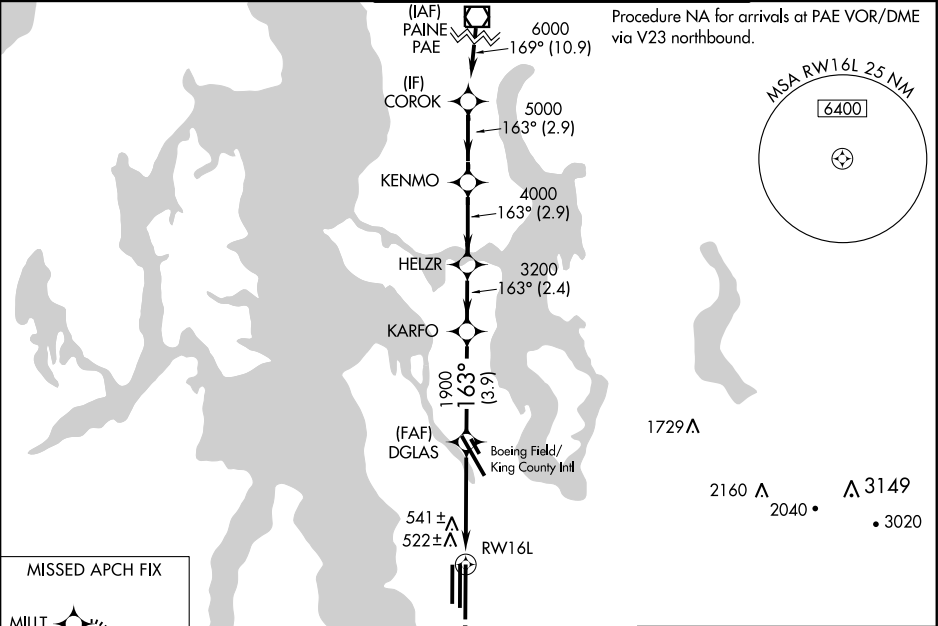
SEATTLE-TACOMA INTL (SEA)

WAAS CH 63202 W16A	APP CRS 163°	Rwy Idg 11901 TDZE 433 Apt Elev 433
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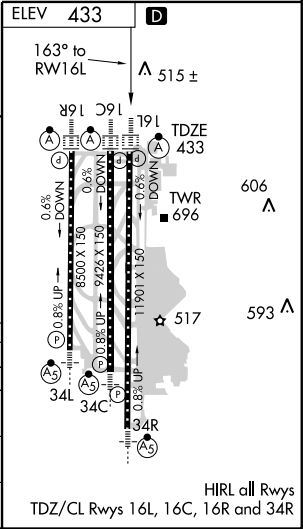
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 47°C (116°F).
DME/DME RNP -0.3 NA. For inoperative ALSF-2, increase LPV all Cats. visibility to RVR 5000.

ALSF-2
MISSED APPROACH: Climb direct CAVOB to cross CAVOB at or below 2000, then climb to 5000 via track 163° to MILLT and hold, continue climb-in-hold to 5000.

ATIS 118.0	SEATTLE APP CON 133.65 273.45	SEATTLE TOWER 119.9 239.3 (Rwys 16C/34C, 16L/34R) 120.95 239.3 (Rwy 16R/34L)	GND CON 121.7
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CATEGORY	A	B	C	D
LPV DA	729/24	296 (300-½)		
LNAV/VNAV DA	811/40	378 (400-¾)		
LNAV MDA	920/24	487 (500-½)	920/40 487 (500-¾)	920/50 487 (500-1)
CIRCLING	1000-1	567 (600-1)	1000-1½ 567 (600-1½)	1000-2 567 (600-2)



WAAS CH 86910 W16D	APP CRS 163°	Rwy Idg 8500 TDZE 415 Apt Elev 433
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RNAV (GPS) RWY 16R

SEATTLE-TACOMA INTL (SEA)

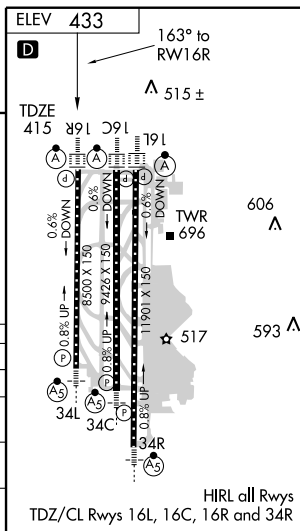
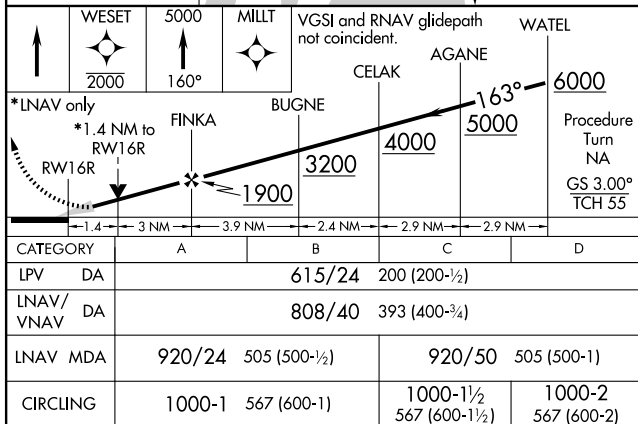
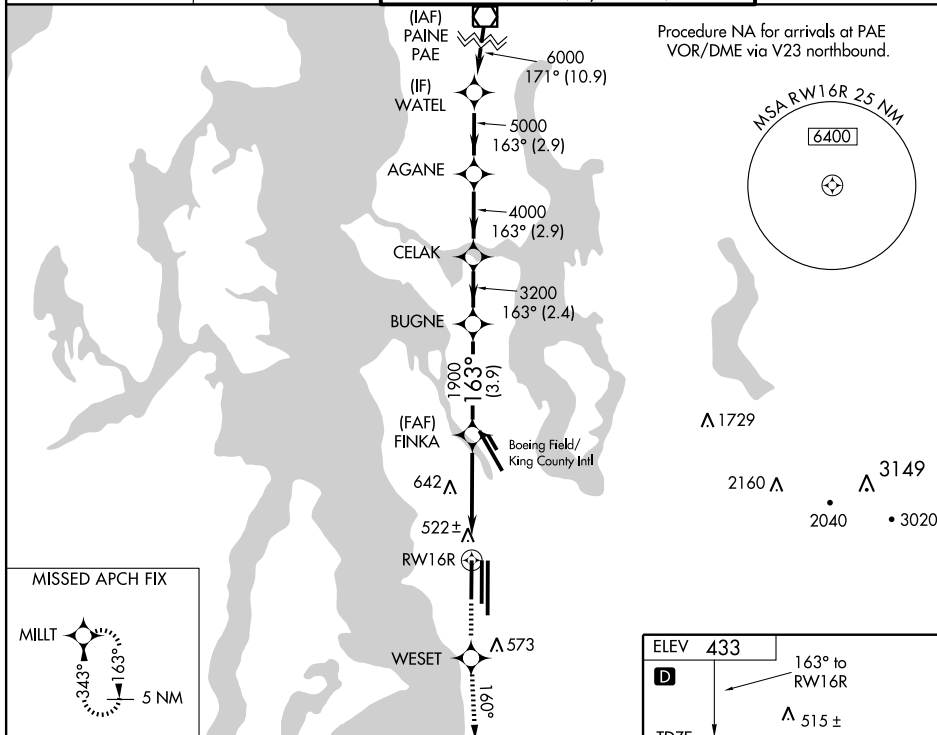
T For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 47°C (116°F).
DME/DME RNP-0.3 NA.

ALSF-2




MISSED APPROACH: Climb direct WESET to cross WESET at or below 2000, then climb to 5000 via track 160° to MILT and hold, continue climb-in-hold to 5000.

ATIS 118.0	SEATTLE APP CON 133.65 273.45	SEATTLE TOWER 119.9 239.3 (Rwys 16C/34C, 16L/34R) 120.95 239.3 (Rwy 16R/34L)	GND CON 121.7
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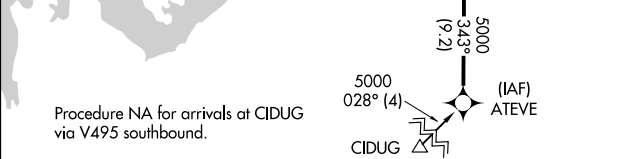
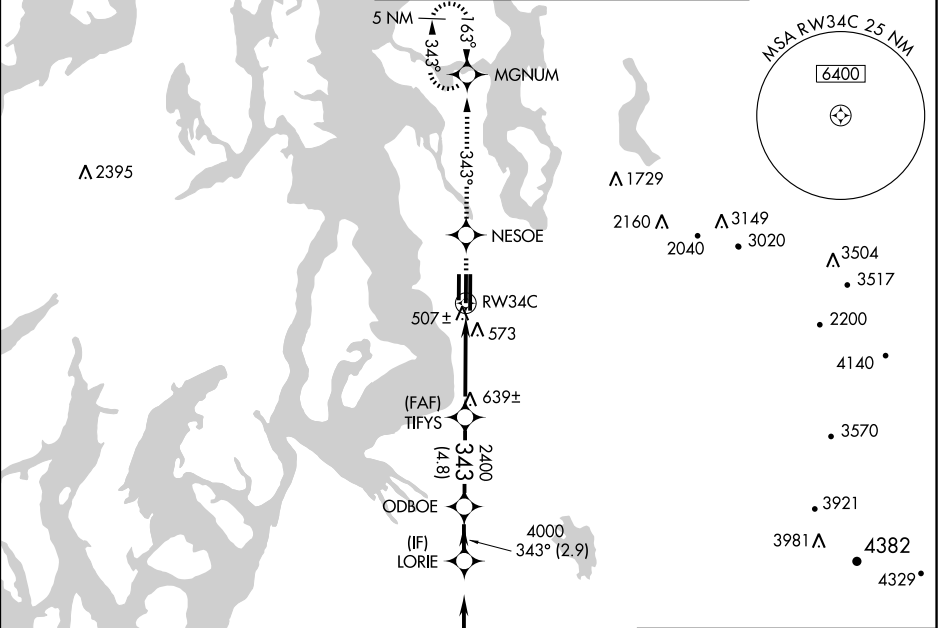








WAAS CH 77710 W34B	APP CRS 343°	Rwy Idg TDZE 387 Apt Elev 433
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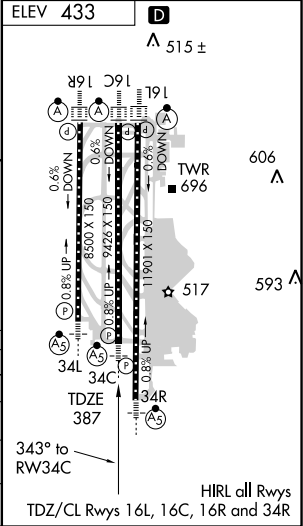
RNAV (GPS) RWY 34C
SEATTLE-TACOMA INTL (SEA)

▼ For inoperative MALS, increase LPV all Cats. visibility to RVR 6000. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 48°C (118°F). DME/DME RNP -0.3 NA.	MALS 	MISSED APPROACH: Climb direct NESOE to cross NESOE at or below 2000, then climb to 5000 via track 343° to MGNUM and hold, continue climb-in-hold to 5000.
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ATIS 118.0	SEATTLE APP CON 133.65 273.45	SEATTLE TOWER 119.9 239.3 (Rwys 16C/34C, 16L/34R) 120.95 239.3 (Rwy 16R/34L)	GND CON 121.7
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	NESOE	5000	MGNUM	VGSi and RNAV glidepath not coincident.	LORIE	Procedure Turn NA
						
	2000	343°				
	* LNAV only RWY 34C					
	* 1.5 NM to RWY 34C					
	1.5 NM 4.6 NM 4.8 NM 2.9 NM					
CATEGORY	A		B		C	
LPV DA	741/40		354 (400-¾)			
LNAV/VNAV DA	790/50		403 (400-1)			
LNAV MDA	900/24		513 (500-½)		900/50 513 (500-1)	
CIRCLING	1000-1		567 (600-1)		1000-1 567 (600-½)	



WAAS CH 42710 W34A	APP CRS 343°	Rwy Idg 11901 TDZE 372 Apt Elev 433
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RNAV (GPS) RWY 34R

SEATTLE-TACOMA INTL (SEA)

T For inoperative MALS/R, increase LPV all Cats. visibility to RVR 5000. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 54°C (130°F). DME/DME RNP -0.3 NA.

MALSR



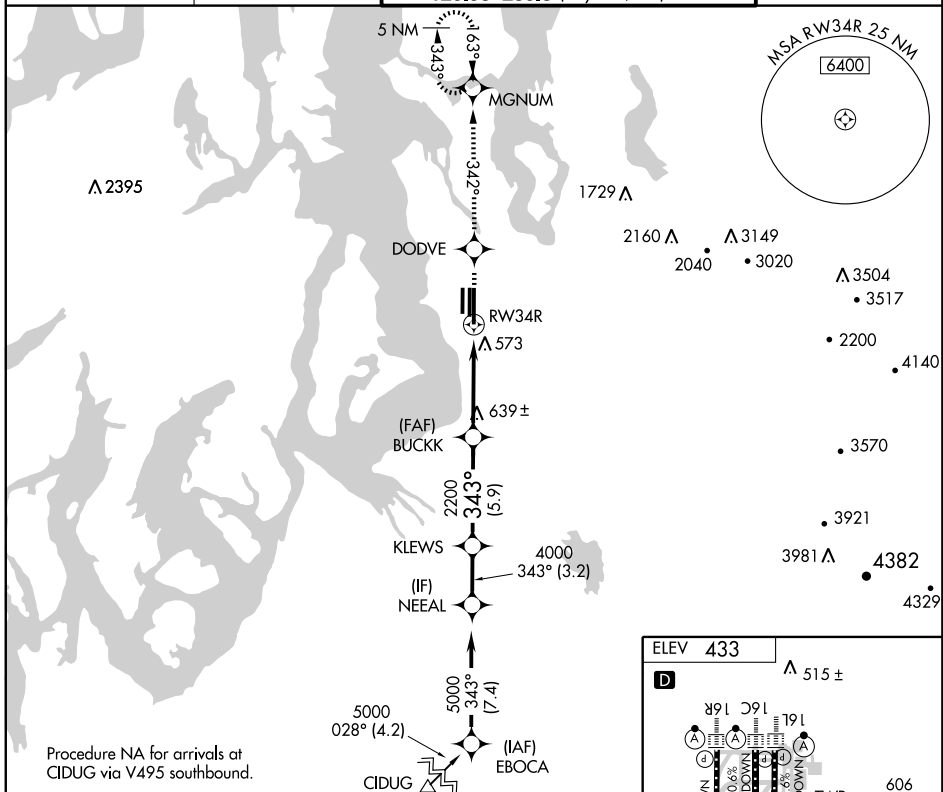
MISSED APPROACH: Climb direct DODVE to cross DODVE at or below 2000, then climb to 5000 via track 342° to MGNUM and hold, continue climb-in-hold to 5000.

ATIS
118.0

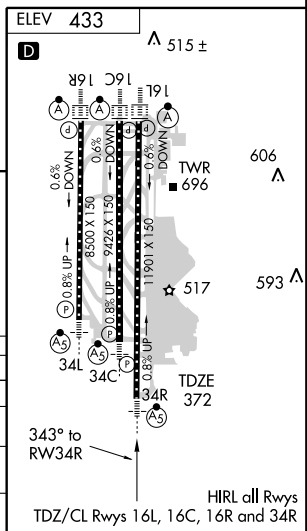
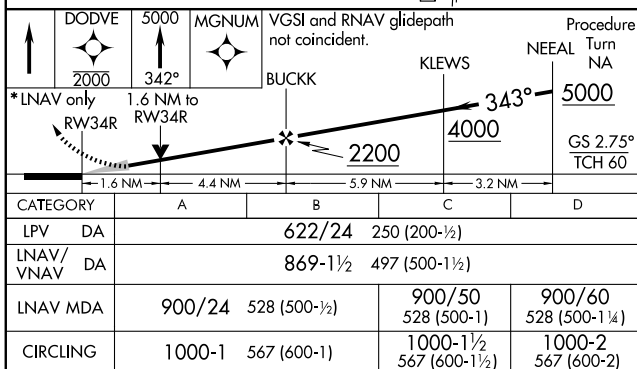
SEATTLE APP CON
133.65 273.45

SEATTLE TOWER
119.9 239.3 (Rwys 16C/34C, 16L/34R)
120.95 239.3 (Rwy 16R/34L)

GND CON
121.7



Procedure NA for arrivals at
CIDUG via V495 southbound.

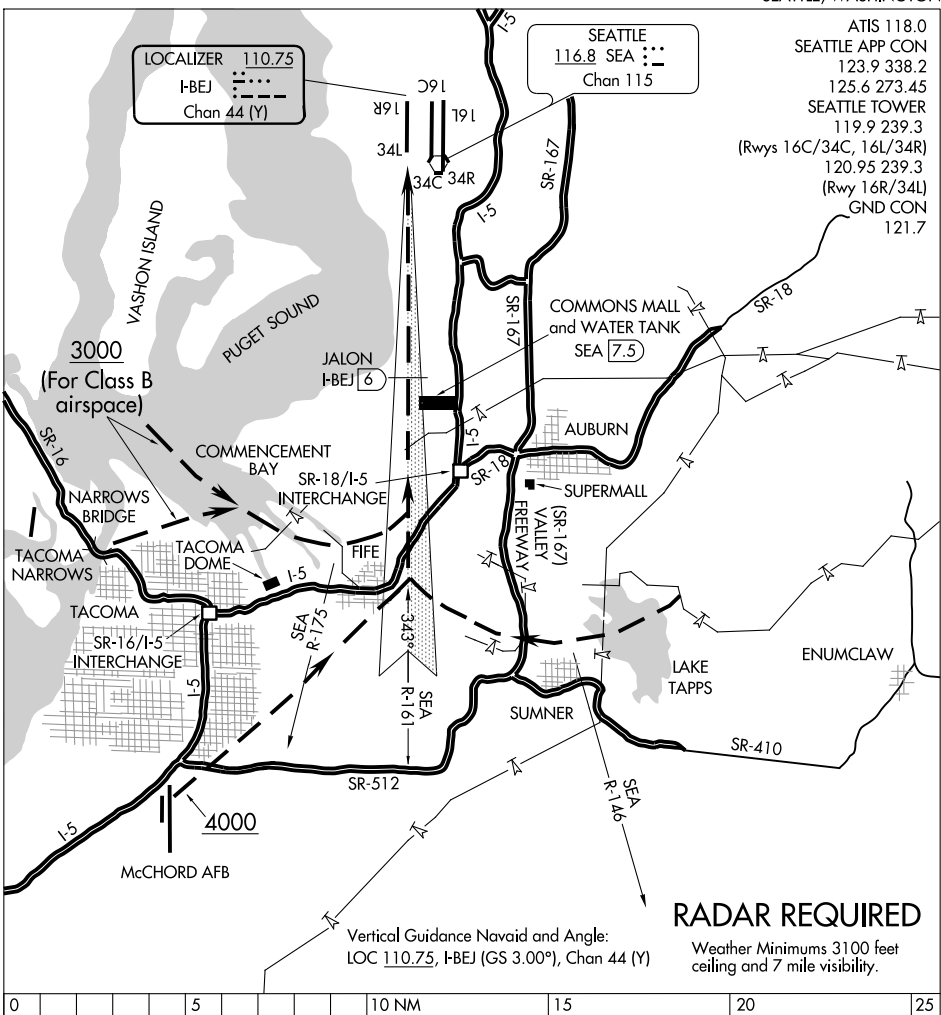


NW-1. 08 APR 2010 to 06 MAY 2010

SALTY VISUAL RWY 34L

AL-582 (FAA)

SEATTLE-TACOMA INTL (SEA)
SEATTLE, WASHINGTON



SALTY VISUAL APPROACH RWY 34L

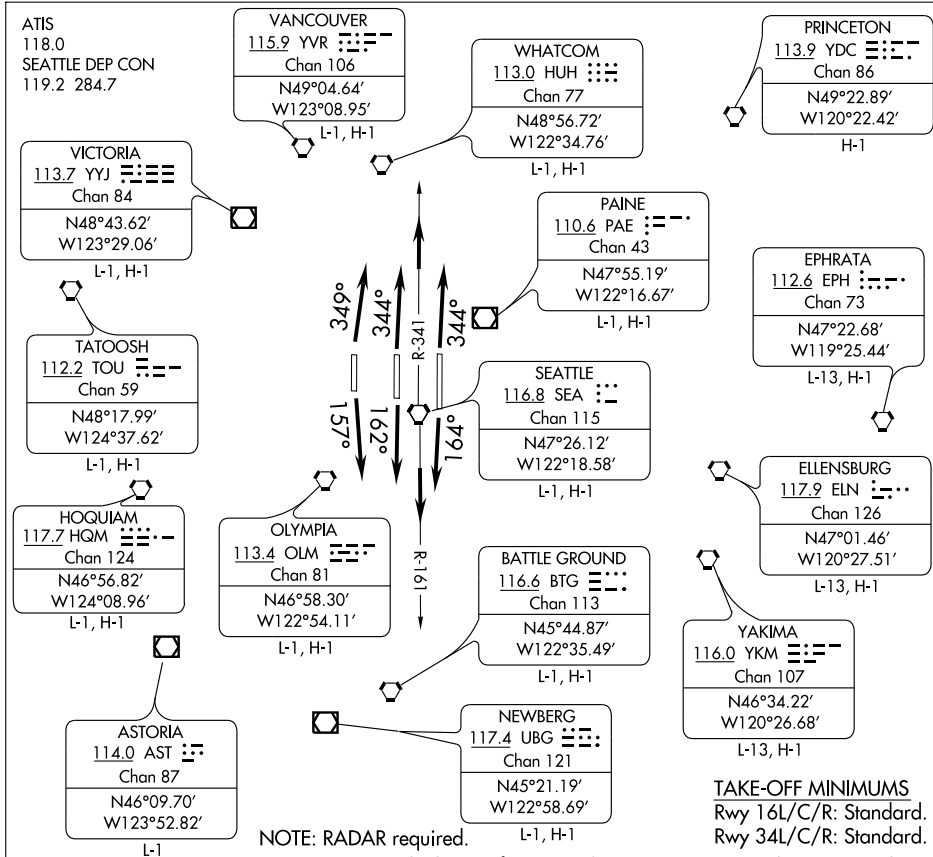
When the ceiling is at least 3100' and visibility is at least 7 miles, aircraft may be vectored towards Commencement Bay or McChord AFB or Lake Tapps for a Salty Visual Runway 34L Approach. When cleared for this approach; proceed inbound visually using the depicted landmarks to the centerline of runway 34L. Turn final before or over the interchange of State Road 18 (SR-18) and Interstate 5. Be established on the localizer or runway centerline at the Commons Mall and Water Tank (7.5 DME) and proceed visually to runway 34L.

SEATTLE FOUR DEPARTURE

SL-582 (FAA)

SEATTLE-TACOMA INTL (SEA)

SEATTLE, WASHINGTON



NOTE: RADAR required.

NOTE: Between the hours of 2200 and 0600 local, large turbine powered aircraft departing runways 34L/C/R will be vectored over Puget Sound for noise abatement before proceeding on course.

TAKE-OFF OBSTACLE NOTES

Rwy 16L: Trees beginning 2908' from DER, 1064' right of centerline, up to 100' AGL/476' MSL.

Rwy 16C: Trees beginning 4477' from DER, 484' right of centerline, up to 100' AGL/507' MSL.

Rwy 16R: Trees, antenna on building and light pole beginning 488' from DER, 436' left of centerline, up to 100' AGL/507' MSL. Trees beginning 1137' from DER, 587' right of centerline, up to 100' AGL/468' MSL.

Rwy 34L: Fence 189' from DER, 401' right of centerline, up to 12' AGL/420' MSL.

Trees beginning 4010' from DER, 857' left of centerline, up to 100' AGL/522' MSL.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 34L: Climb heading 349° and SEA R-341, thence. . .TAKE-OFF RUNWAY 34C/R: Climb heading 344° and SEA R-341, thence. . .TAKE-OFF RUNWAY 16L: Climb heading 164° and SEA R-161, thence. . .TAKE-OFF RUNWAY 16C: Climb heading 162° and SEA R-161, thence. . .TAKE-OFF RUNWAY 16R: Climb heading 157° and SEA R-161, thence. . .

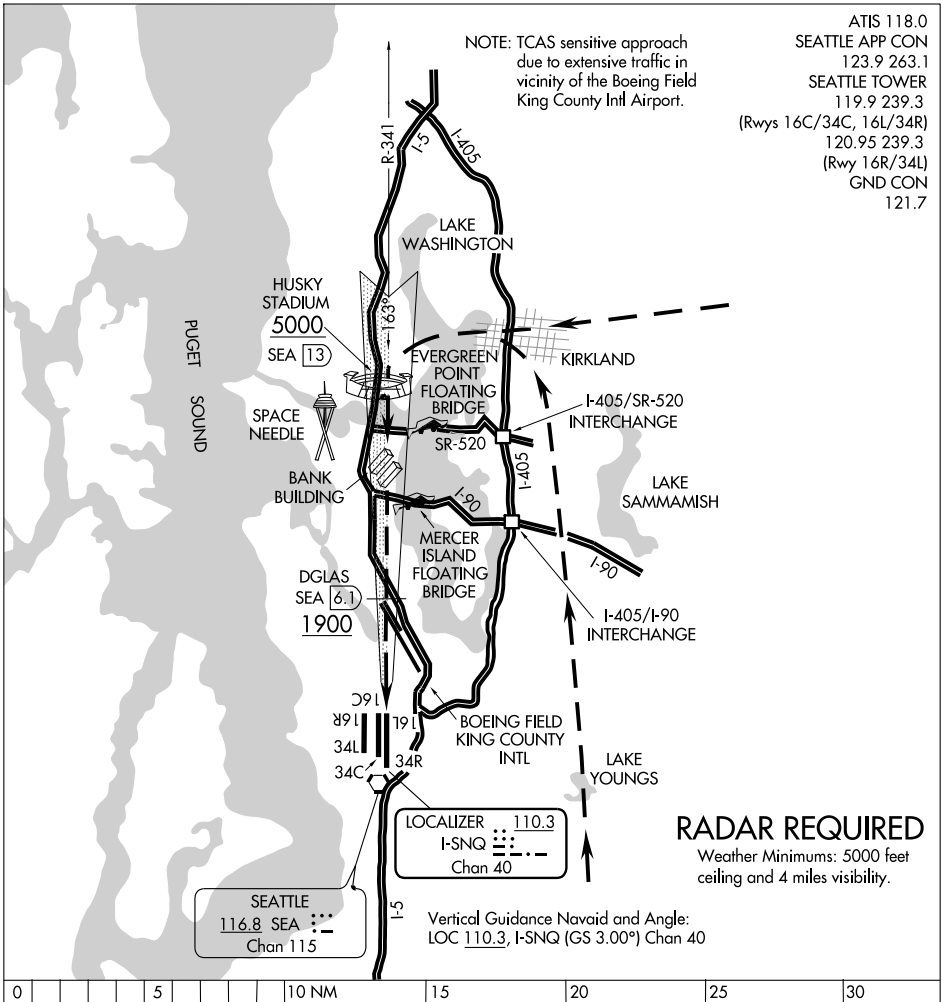
. . . Maintain assigned altitude, expect radar vectors to assigned route.

STADIUM VISUAL RWY 16L

AL-582 (FAA)

SEATTLE-TACOMA INTL (SEA)

SEATTLE, WASHINGTON



STADIUM VISUAL APPROACH RWY 16L

When the ceiling is at least 5000' and visibility is at least 4 miles, aircraft may be vectored over Kirkland or Lake Youngs for a Stadium Visual Runway 16L Approach. When cleared for a Stadium Visual Approach; proceed inbound visually over Husky Stadium (via route depicted); intercept the Runway 16L localizer/SEA R-341 at 13 DME and complete a straight in visual approach to the airport.

SUMMA SEVEN DEPARTURE

SL-582 (FAA)

SEATTLE-TACOMA INTL (SEA)
SEATTLE, WASHINGTON

ATIS
118.0
SEATTLE DEP CON
119.2 284.7

NEZUG
N47°34.12'
W122°18.58'
4000

PAINE
110.6 PAE
Chan 43

TAKE-OFF MINIMUMS

Rwys 16L/C/R: Standard.

Rwys 34L/C/R: Standard with minimum climb of 580' per NM to 4000 (ATC).

TAKE-OFF OBSTACLE NOTES

Rwy 16L: Trees beginning 2908' from DER, 1064' right of centerline, up to 100' AGL/476' MSL.

Rwy 16C: Trees beginning 4477' from DER, 484' right of centerline, up to 100' AGL/507' MSL.

Rwy 16R: Trees, antenna on building and light pole beginning 488' from DER, 436' left of centerline, up to 100' AGL/507' MSL. Trees beginning 1137' from DER, 587' right of centerline, up to 100' AGL/468' MSL.

Rwy 34L: Fence 189' from DER, 401' right of centerline, up to 12' AGL/420' MSL. Trees beginning 4010' from DER, 857' left of centerline, up to 100' AGL/522' MSL.

NEVJO
N47°15.13'
W122°18.58'

OLYMPIA
113.4 OLM
Chan 81

SUMMA
N46°37.07'
W121°59.30'

LAKEVIEW
112.0 LKV
Chan 57
N42°29.57' W120°30.43'
L-11, H-3

BAKER CITY
115.3 BKE
Chan 100
N44°50.44' W117°48.47'
L-13, H-1

NOTE: RADAR and DME required.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 34L: Climb heading 346° and SEA R-341, thence. . .TAKE-OFF RUNWAY 34C: Climb heading 343° and SEA R-341, thence. . .TAKE-OFF RUNWAY 34R: Climb heading 342° and SEA R-341, thence. . .

. . .to cross NEZUG at or above 4000, then right turn heading 070° to cross the PAE R-139, then right turn heading 165° to intercept SEA R-146 to SUMMA INT, then via assigned transition.

TAKE-OFF RUNWAYS 16L/C: Climb heading 163° and SEA R-161, thence. . .TAKE-OFF RUNWAY 16R: Climb heading 161° and SEA R-161, thence. . .

. . .to NEVJO, then left turn heading 130° to intercept the SEA R-146 to SUMMA INT, then via assigned transition.

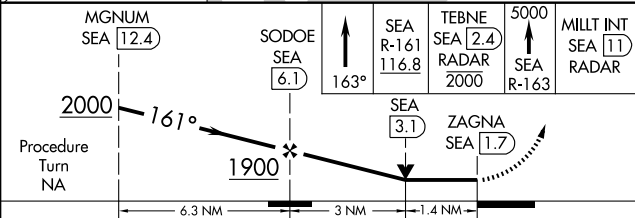
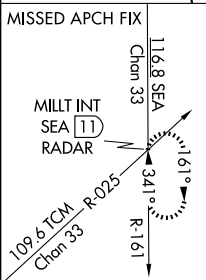
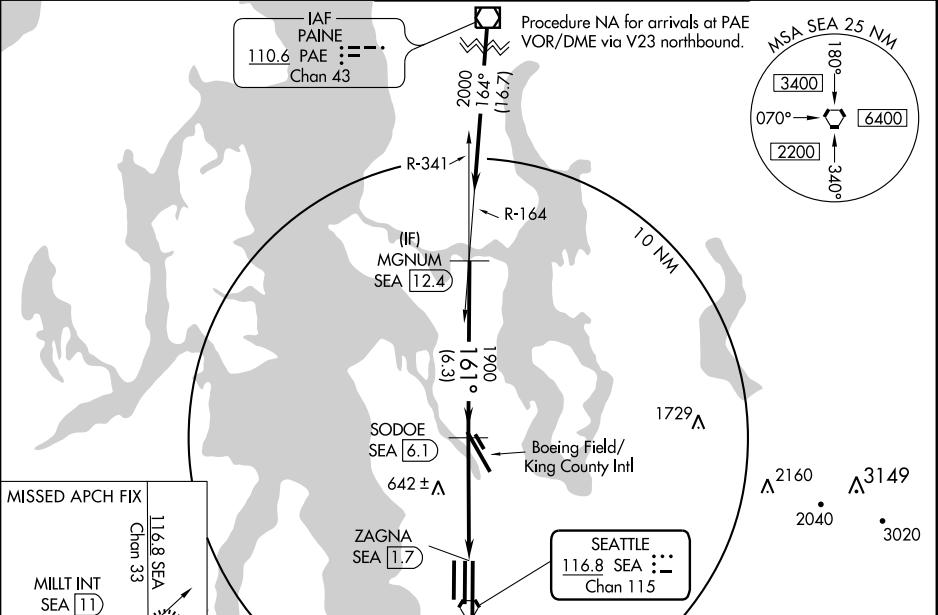
BAKER CITY TRANSITION (SUMMA7.BKE): From over SUMMA INT via OLM R-100 and BKE R-283 to BKE VOR/DME.LAKEVIEW TRANSITION (SUMMA7.LKV): From over SUMMA INT via SEA R-146 and LKV R-327 to LKV VORTAC.

See additional requirements on adjacent information page.

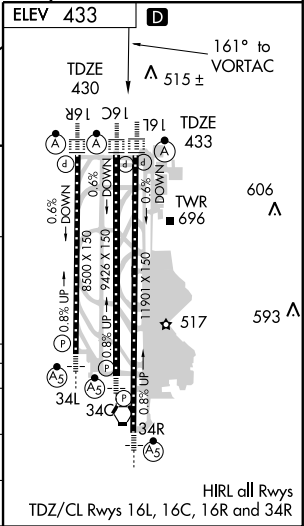
ALSF-2
Rwy 16L/C

MISSED APPROACH: Climb heading 163° and SEA VORTAC R-161 to cross TEBNE/2.4 DME/RADAR at or below 2000, then climb to 5000 via SEA R-163 to MILT INT/SEA 11 DME/RADAR and hold, continue climb-in-hold to 5000.

ATIS 118.0	SEATTLE APP CON 133.65 273.45	SEATTLE TOWER 119.9 239.3 (Rwys 16C/34C, 16L/34R) 120.95 239.3 (Rwy 16R/34L)	GND CON 121.7
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CATEGORY	A	B	C	D
S-16L	960/24 527 (600-½)		960/50 527 (600-1)	960/60 527 (600-1 ¼)
S-16C	960/24 530 (600-½)		960/50 530 (600-1)	960/60 530 (600-1 ¼)
CIRCLING	1000-1 567 (600-1)		1000-1 ½ 567 (600-1 ½)	1000-2 567 (600-2)



SEATTLE-TACOMA INTL AIRPORT**ALERT NOTICE****ATTENTION ALL AIRCRAFT LANDING TO THE SOUTH:**

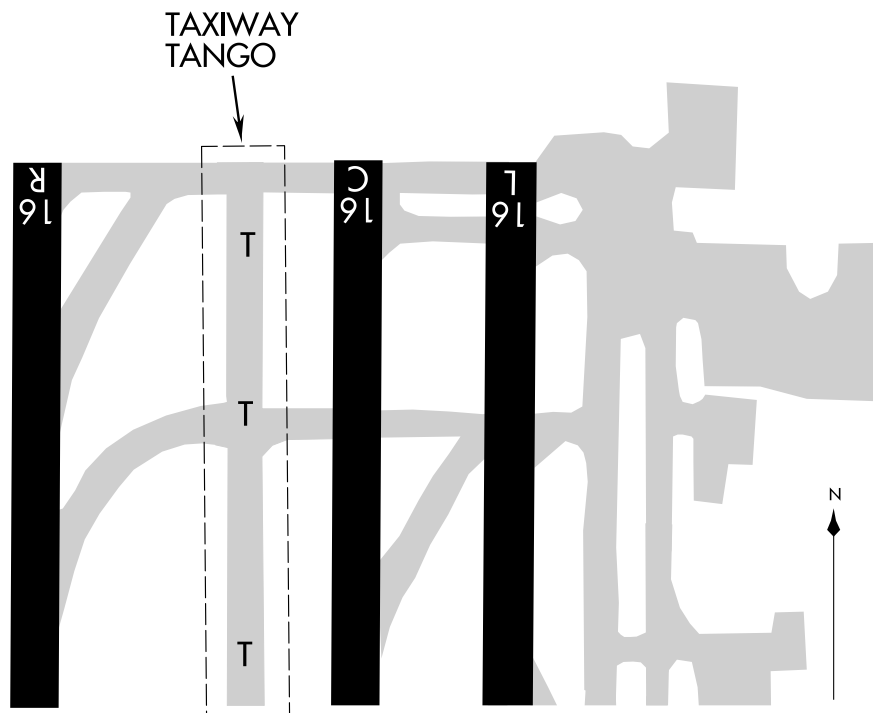
When transitioning from an instrument procedure to a visual approach to Runway 16C, verify you are aligned for the intended landing Runway, not Taxiway Tango. Taxiway Tango is west and parallel to Runway 16C.

TRANSITION TO VISUAL:

Taxiway Tango has been mistaken for Runway 16C from the air during certain visibility conditions, i.e., wet runway, low sun angle reflections. Aircrews are advised to be aware of the proximity of the taxiway to Runway 16C and its runway-like appearance while on approach.

RECOMMENDATION:

Aircrews should use visual cues, e.g., approach lighting systems, REILs, when available, to confirm alignment with Runway 16C not Taxiway Tango. Additionally, it is recommended when executing a segment of the ILS approach for a visual transition, track the localizer until the runway environment is visually verified.



VORTAC SEA	APP CRS	Rwy 34C Idg	9426	Rwy 34R Idg	11901
116.8	341°	TDZE	387	TDZE	372
Chan 115		Apt Elev	433	Apt Elev	433

Inoperative table does not apply to sidestep 34R Cats. A and B.

MALSR

Rwy 34C/R

MISSED APPROACH: Climb via SEA R-341 to cross COYLA/4.7 DME/RADAR at or below 2000, then climb to 5000 via SEA R-341 to MGNUM/SEA 12.4 DME and hold, continue climb-in-hold to 5000.

ATIS	SEATTLE APP CON	SEATTLE TOWER	GND CON
118.0	133.65 273.45	119.9 239.3 (Rwys 16C/34C, 16L/34R) 120.95 239.3 (Rwy 16R/34L)	121.7

SEA R-341

COYLA SEA 4.7 RADAR 2000

5000 SEA R-341

MGNUM SEA 12.4

VGSI and descent angles not coincident.

FACTS INT SEA 18

SEA 1.1

BALNE SEA 0.3

DONDO SEA 4.3

MILLT INT SEA 11

341°

1800

3000

6000

Procedure Turn NA

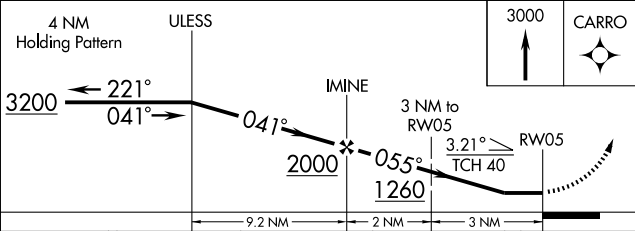
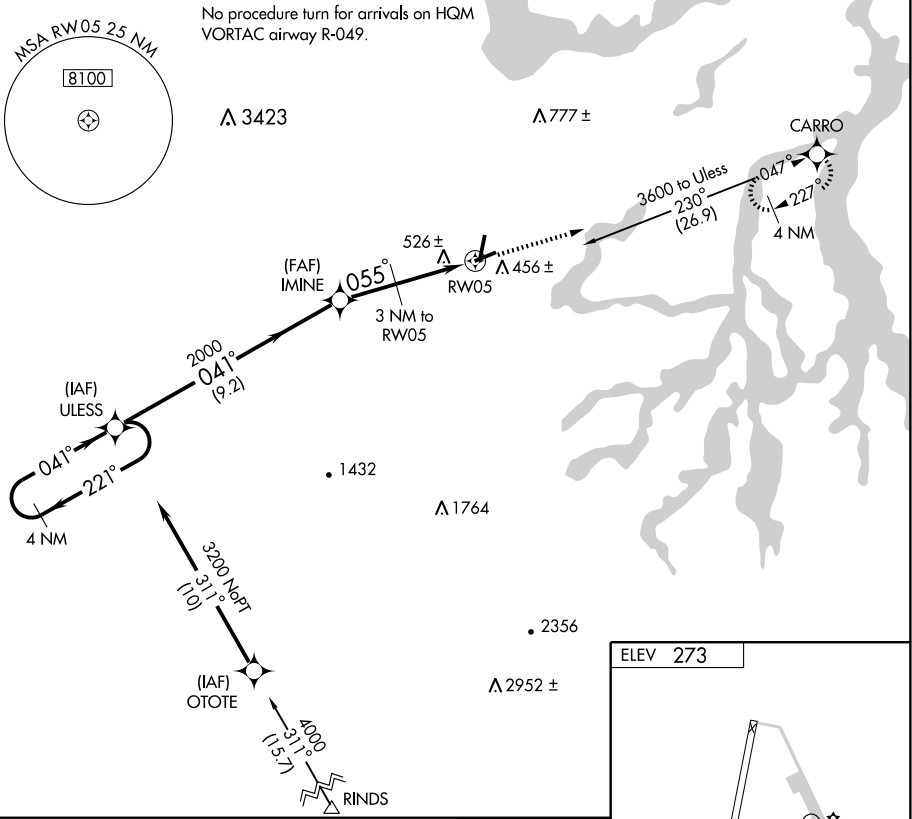
CATEGORY	A	B	C	D
S-34C	840/24 453 (500-½)	840/40 453 (500-¾)	840/50 453 (500-1)	
SIDESTEP 34R	840/60 468 (500-1¼)		840-1¾ 468 (500-1¾)	
CIRCLING	1000-1 567 (600-1)	1000-1½ 567 (600-1½)	1000-2 567 (600-2)	

NW-1, 08 APR 2010 to 06 MAY 2010

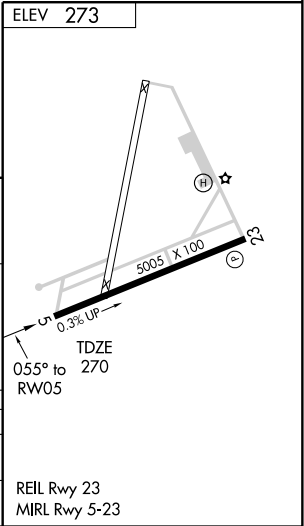
APP CRS	Rwy Idg	5005
055°	TDZE	270
	Apt Elev	273

<div><div></div><div>NA</div></div>	MISSED APPROACH: Climb to 3000 direct CARRO WP and hold.
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ASOS 119.275	SEATTLE APP CON 121.1 290.9	UNICOM 122.8 (CTAF)
-----------------	--------------------------------	------------------------



CATEGORY	A	B	C	D
S-5	780-1	510 (600-1)	780-1½ 510 (600-1½)	780-1¾ 510 (600-1¾)
CIRCLING	840-1	567 (600-1)	940-2 667 (700-2)	1000-2¼ 727 (800-2¼)



GPS RWY 23

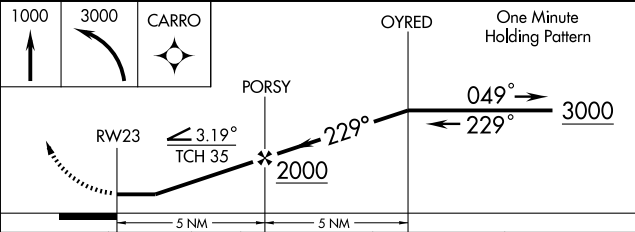
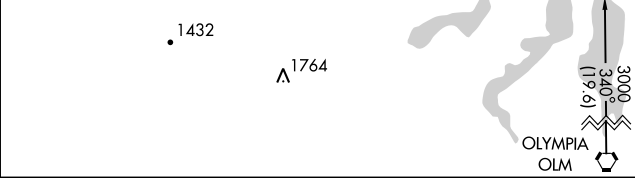
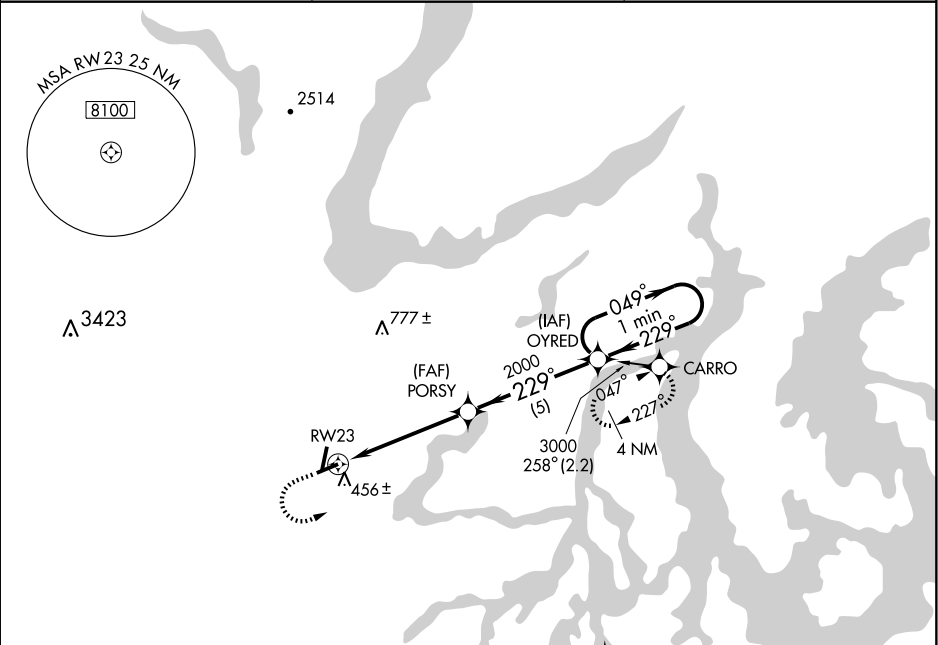
SHELTON/ SANDERSON FIELD (SHN)

APP CRS	Rwy Idg	5005
229°	TDZE	273
	Apt Elev	273

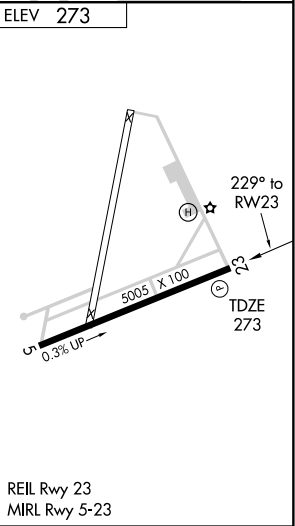

NA

MISSED APPROACH: Climb to 1000 then climbing left turn to 3000 direct CARRO WP and hold.

ASOS 119.275	SEATTLE APP CON 121.1 290.9	UNICOM 122.8 (CTAF)
-----------------	--------------------------------	------------------------



CATEGORY	A	B	C	D
S-23	860-1 587 (600-1)	860-1½ 587 (600-1½)	860-1¾ 587 (600-1¾)	860-2 587 (600-2)
CIRCLING	860-1 587 (600-1)	860-1½ 587 (600-1½)	860-1¾ 587 (600-1¾)	860-2 587 (600-2)

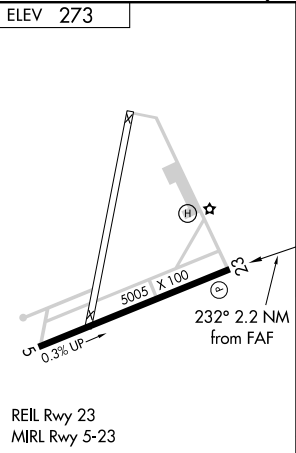
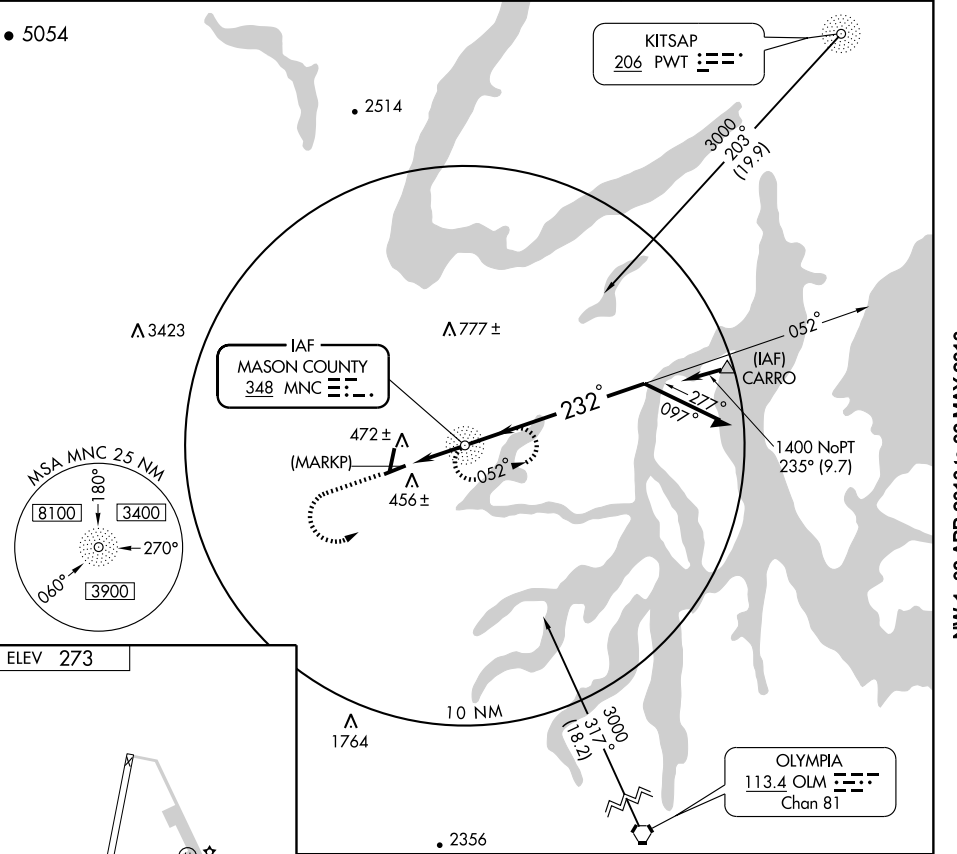


T

NA

MISSED APPROACH: Climb to 1200 then climbing left turn to 3000 direct MNC NDB and hold.

ASOS 119.275	SEATTLE APP CON 121.1 290.9	UNICOM 122.8 (CTAF)
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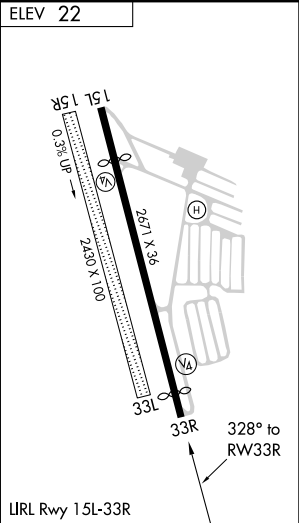
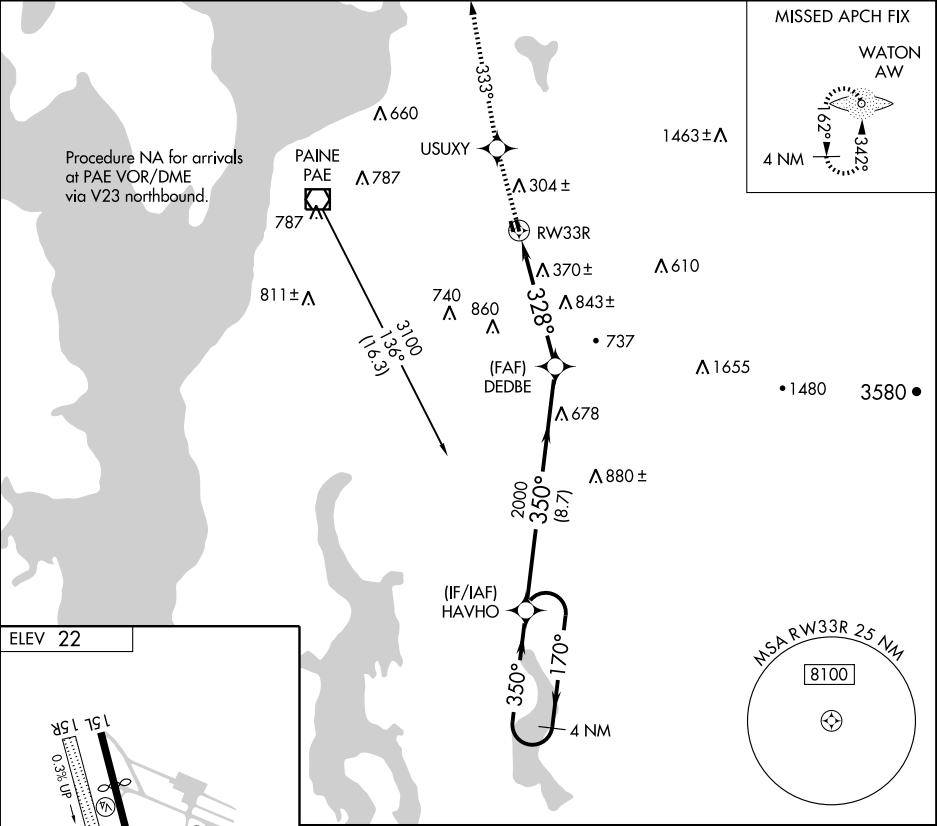
FAF to MAP 2.2 NM						CATEGORY	A	B	C	D
Knots	60	90	120	150	180	CIRCLING	900-1	627 (700-1)	940-2 667 (700-2)	1000-2¼ 727 (800-2¼)
Min:Sec	2:12	1:28	1:06	0:53	0:44					

APP CRS	Rwy Idg	N/A
328°	TDZE	N/A
	Apt Elev	22

RNAV (GPS)-A
SNOHOMISH/ HARVEY FIELD (S43)

<p>NA</p> <p>DME/DME RNP-0.3 NA.</p> <p>Procedure NA at night.</p> <p>Use Arlington altimeter setting. When not received, use Everett altimeter setting and increase all MDA 60 feet.</p>	<p>MISSED APPROACH: Climb to 2000 direct USUXY and via 333° track to WATON LOM and hold.</p>
--	--

ARLINGTON AWOS-3 135.625	SEATTLE CENTER 128.5 306.9	UNICOM 123.0 (CTAF)
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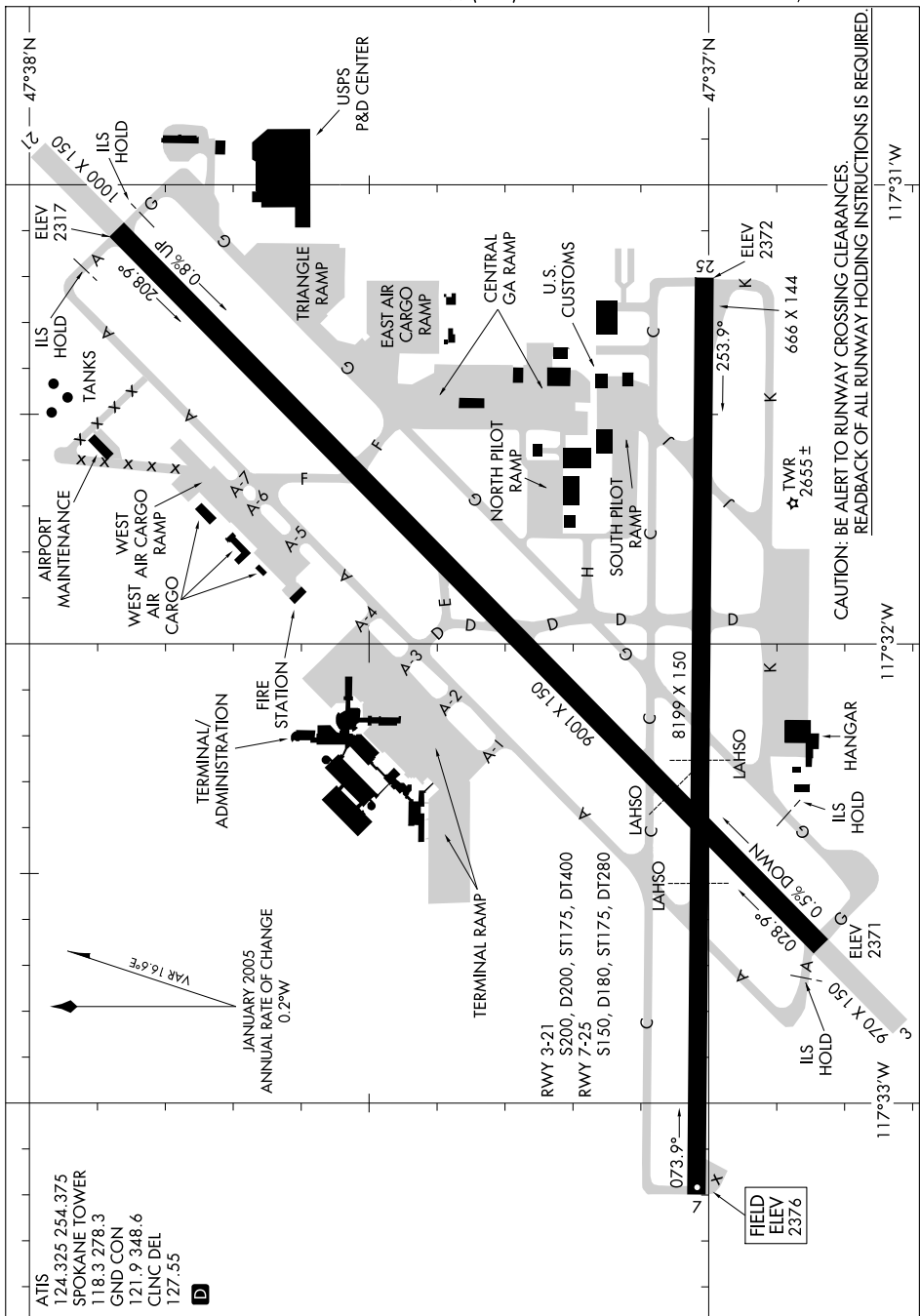


2000	USUXY	333° track	AW	HAVHO	4 NM Holding Pattern
VGSI and descent angles not coincident.		DEDBE			
RW33R		328°			
328°		350°			
350°		170°			
3100		3100			
CATEGORY	A	B	C	D	
CIRCLING	1220-1¼ 1198 (1200-1¼)	1220-1½ 1198 (1200-1½)	NA		

AIRPORT DIAGRAM

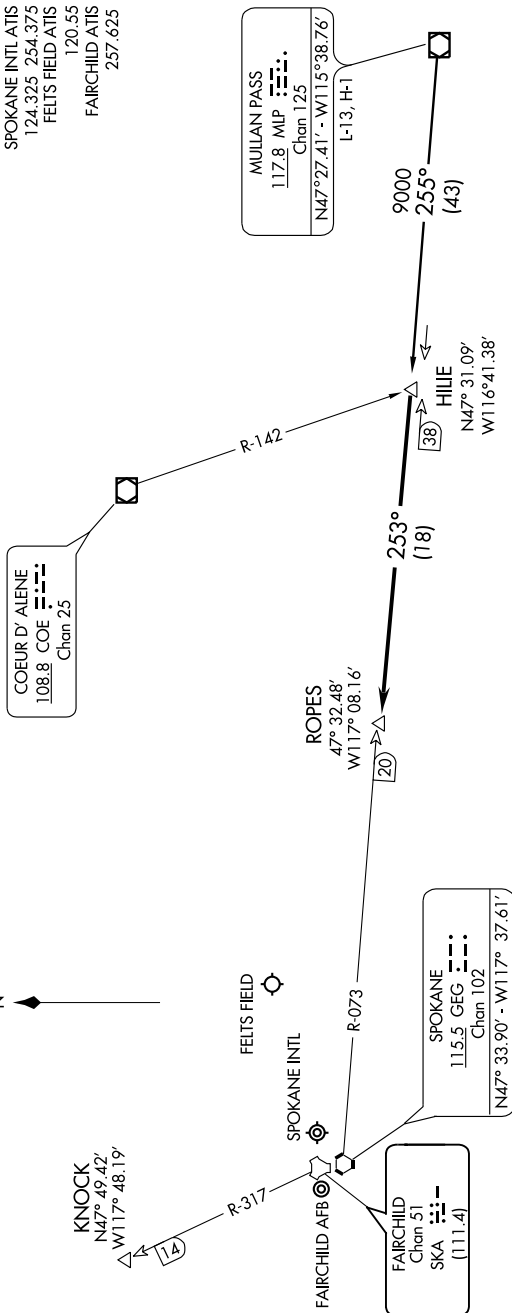
AL-403 (FAA)

SPOKANE INTL (GEG)
SPOKANE, WASHINGTON



NW-1. 08 APR 2010 to 06 MAY 2010

SPOKANE APP CON
133.35 263.0
SPOKANE INIT ATIS
124.325 254.375
FELTS FIELD ATIS
120.55
FAIRCHILD ATIS
257.625



NOTE: DME and RADAR required.
NOTE: Chart not to scale.

MULLAN PASS TRANSITION (MLP.HILIE1): From over MLP VOR/DME via MLP R-255 to HILIE INT. Thence. . .

. . . From over HILIE INT via GEG R-073 to ROPES INT. Expect radar vectors to final approach course.

LOST COMMUNICATIONS: After ROPES INT:

Landing Spokane Intl or Felts Field: Proceed to GEG VORTAC via GEG R-073, maintain last assigned altitude to GEG.

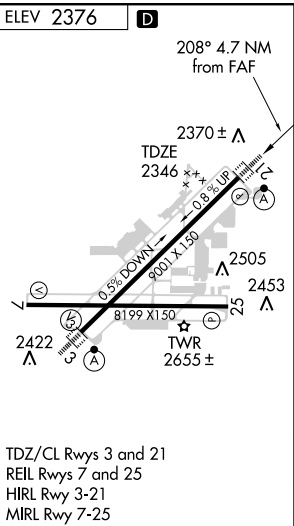
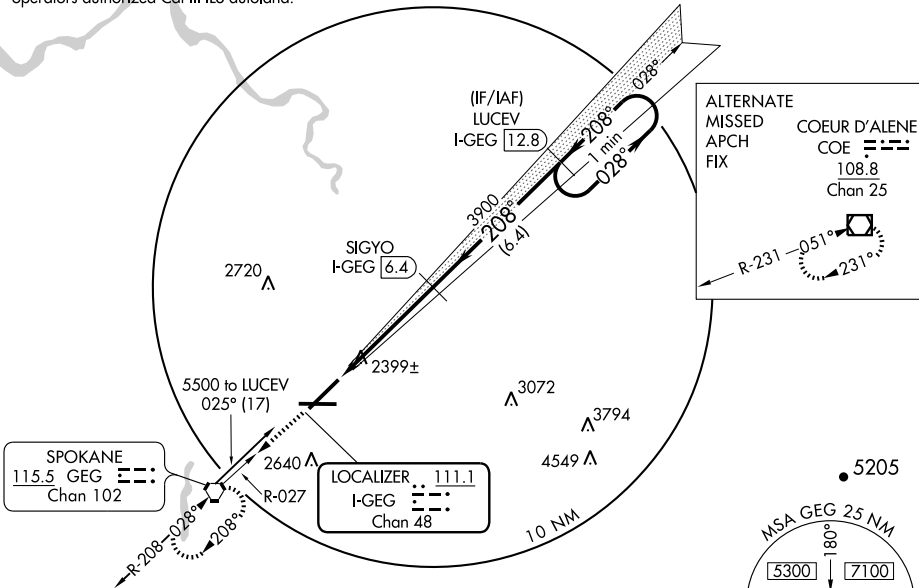
Landing Fairchild AFB: Proceed to KNOCK DME via direct, maintain last assigned altitude to KNOCK.

LOC/DME I-GEG	APP CRS	Rwy Idg	9001
111.1	208°	TDZE	2346
Chan 48		Apt Elev	2376


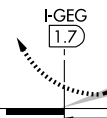
ILS or LOC/DME RWY 21
SPOKANE INTL (GEG)

⚠ For inoperative ALSF, increase S-LOC 21 Cat D visibility to 1.		ALSF-2 	MISSED APPROACH: Climb to 4200 via GEG VORTAC R-027 to GEG VORTAC and hold.	
ATIS 124.325 254.375	SPOKANE APP CON 123.75 282.25 (WEST) 133.35 263.0 (EAST)	SPOKANE TOWER 118.3 278.3	GND CON 121.9 348.6	CLNC DEL 127.55

Autoland NA when weather below 300/1 except for operators authorized Cat III ILS autoland.



DME REQUIRED

4200 ↑ GEG R-027		GEG 115.5 		VGSI and ILS glidepath not coincident.		LUCEV I-GEG 12.8		One Minute Holding Pattern	
Use I-GEG DME when on LOC course.		SIGYO I-GEG 6.4		3900		208°		028° ← 208° 5500	
		I-GEG 1.7		3900		4.7 NM		6.4 NM	
CATEGORY		A		B		C		D	
S-ILS 21		2546/18 200 (200-½)							
S-LOC 21		2680/24 334 (400-½)						2680/40 334 (400-¾)	
CIRCLING		2960-1 584 (600-1)				2960-1½ 584 (600-1½)		2980-2 604 (700-2)	

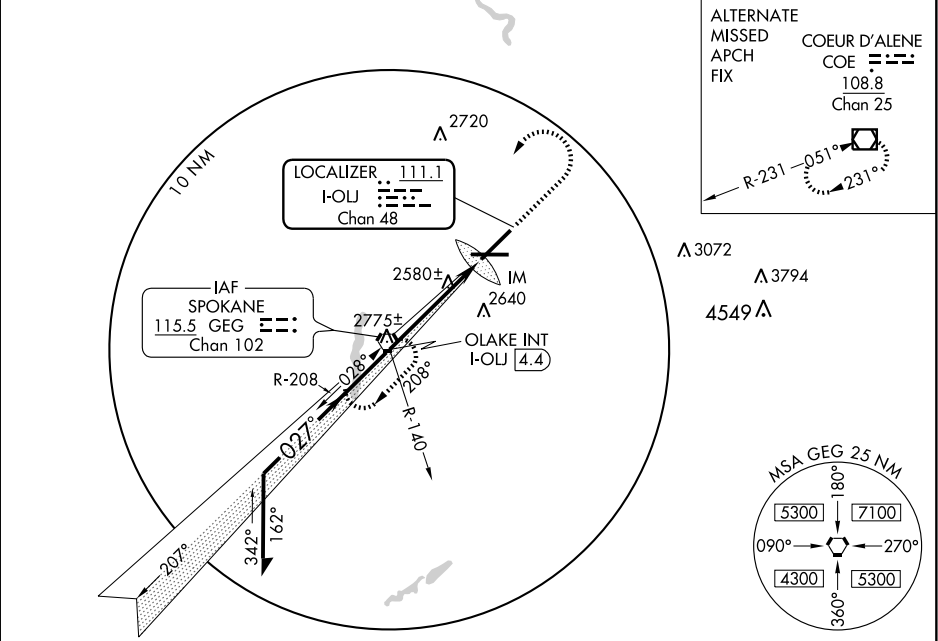
LOC/DME I-OLJ	APP CRS	Rwy Idg	9001
111.1	027°	TDZE	2371
Chan 48		Apt Elev	2376

ILS or LOC RWY 3
SPOKANE INTL (GEG)

ALSIF-2

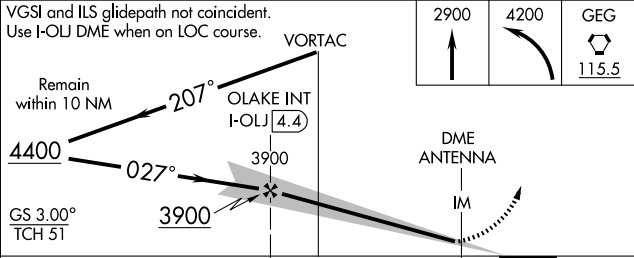
MISSED APPROACH: Climb to 2900 then climbing left turn to 4200 direct GEG VORTAC and hold.

ATIS	SPOKANE APP CON	SPOKANE TOWER	GND CON	CLNC DEL
124.325 254.375	123.75 282.25 (WEST) 133.35 263.0 (EAST)	118.3 278.3	121.9 348.6	127.55

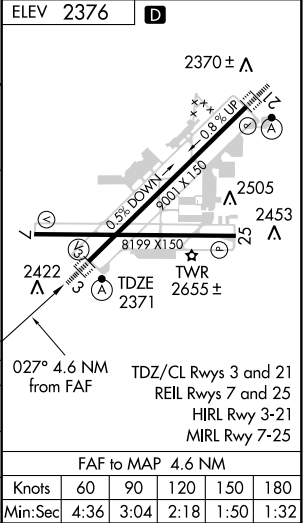


ALTERNATE
MISSED
APCH
FIX

COEUR D'ALENE
COE
108.8
Chan 25







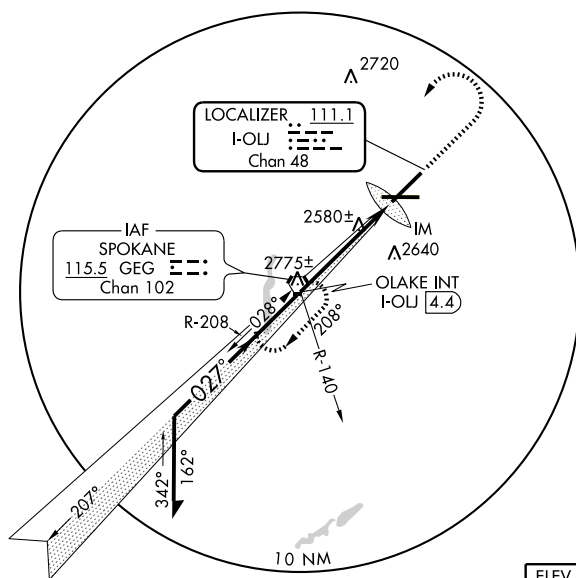
CATEGORY	A	B	C	D
S-ILS 3	2571/18 200 (200-1/2)			
S-LOC 3	2880/24 509 (600-1/2)		2880/50 509 (600-1)	
CIRCLING	2960-1 584 (600-1)		2960-1 1/2 584 (600-1 1/2)	2980-2 604 (700-2)




LOC/DME I-OLJ 111.1 Chan 48	APP CRS 027°	Rwy Idg 9001 TDZE 2371 Apt Elev 2376
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ILS RWY 3 (CAT II)
SPOKANE INTL (GEG)

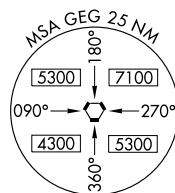
 		ALSF-2  	MISSED APPROACH: Climb to 2900 then climbing left turn to 4200 direct GEG VORTAC and hold.		
ATIS 124.325 254.375	SPOKANE APP CON 123.75 282.25 (WEST) 133.35 263.0 (EAST)	SPOKANE TOWER 118.3 278.3	GND CON 121.9 348.6	CLNC DEL 127.55	



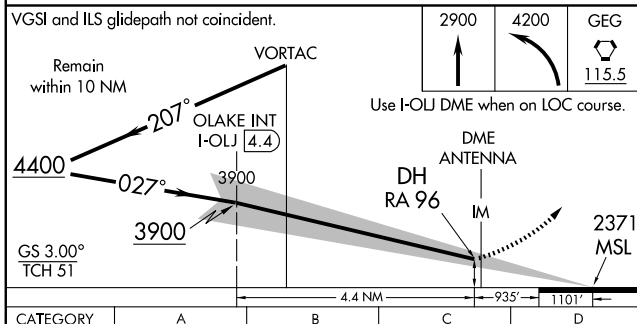
ALTERNATE
MISSED COEUR D'ALENE
APCH COE 
FIX 108.8
Chan 25

A diagram showing a large angle of 231°. A smaller angle of 51° is marked within it, with a dashed line extending from the vertex of the 51° angle.

$\Delta 3072$
 $\Delta 3794$
 4549Δ



VGSI and ILS glidepath not coincident.

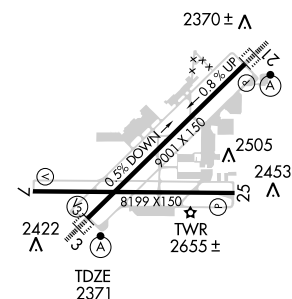


CATEGORY	A	B	C	D
S-ILS 3	RA 96/12 100 DA 2471			

**CATEGORY II ILS - SPECIAL AIRCREW
& AIRCRAFT CERTIFICATION REQUIRED**

ELEV 2376

D



TDZ/CL Rwy 3 and 21
REIL Rwy 7 and 25
HIRL Rwy 3-21
MIRL Rwy 7-25

LOC/DME I-OLJ	APP CRS	Rwy Idg	9001
111.1	027°	TDZE	2371
Chan 48		Apt Elev	2376

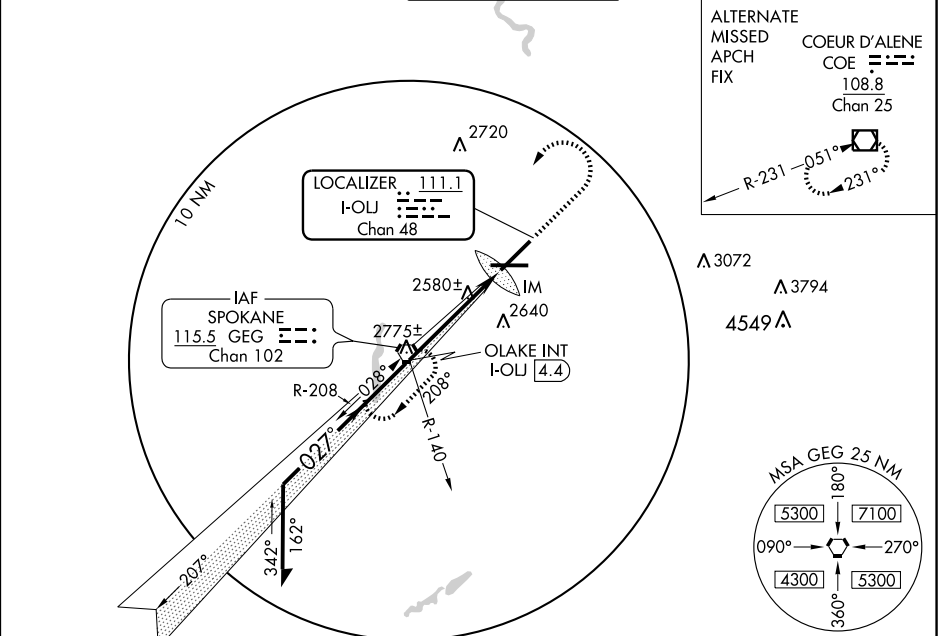
ILS RWY 3 (CAT III)
SPOKANE INTL (GEG)



ALSF-2

MISSED APPROACH: Climb to 2900 then climbing left turn to 4200 direct GEG VORTAC and hold.

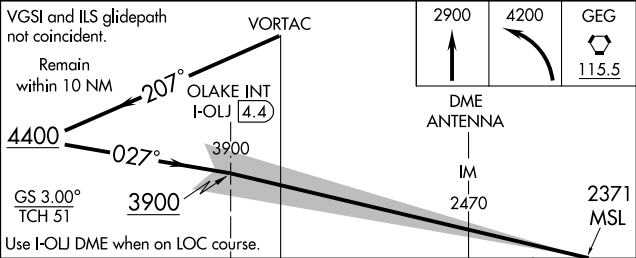
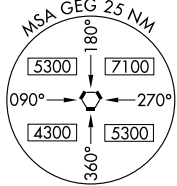
ATIS	SPOKANE APP CON	SPOKANE TOWER	GND CON	CLNC DEL
124.325 254.375	123.75 282.25 (WEST) 133.35 263.0 (EAST)	118.3 278.3	121.9 348.6	127.55



ALTERNATE MISSED APCH FIX

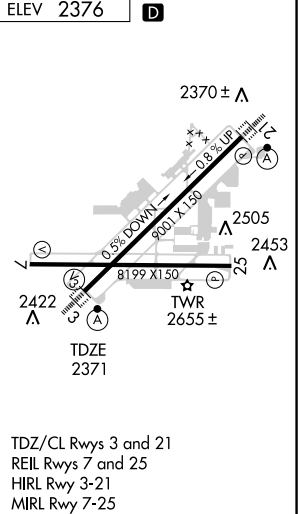
COEUR D'ALENE
COE
108.8
Chan 25

R-231-051°
231°



CATEGORY	A	B	C	D
S-ILS 3		CAT IIIa	RVR 700	
S-ILS 3		CAT IIIb	RVR 600	
S-ILS 3		CAT IIIc	NA	

CATEGORY III ILS - SPECIAL AIRCREW & AIRCRAFT CERTIFICATION REQUIRED



TDZ/CL Rwy 3 and 21
REIL Rwy 7 and 25
HIRL Rwy 3-21
MIRL Rwy 7-25

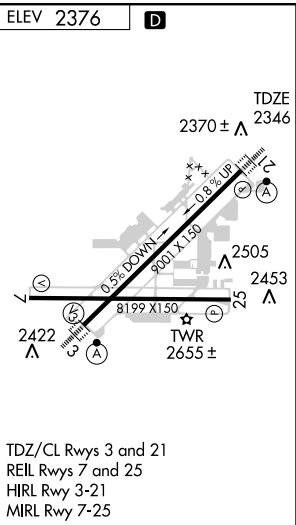
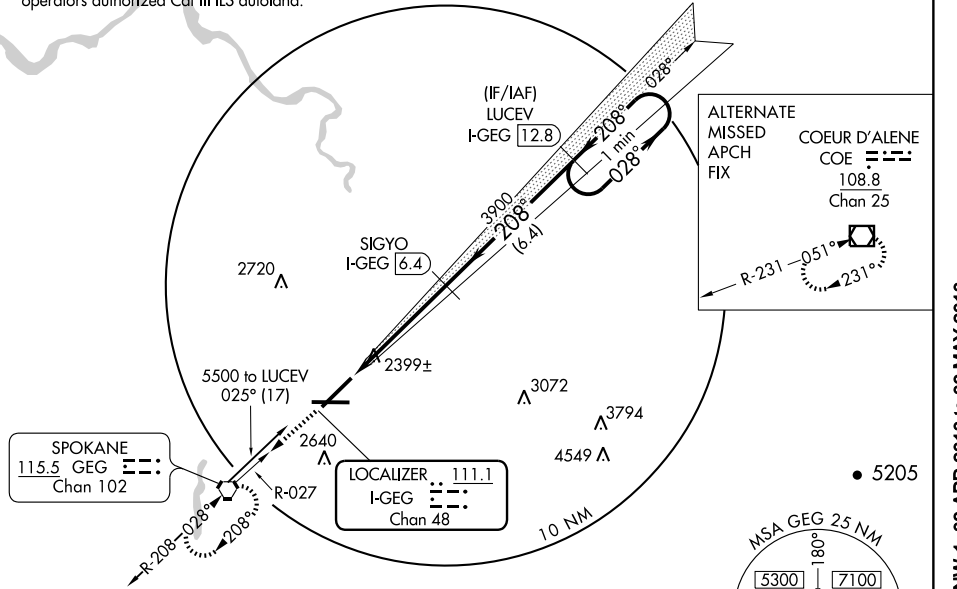
▼
▲

ALSF-2

MISSED APPROACH: Climb to 4200 via
GEG VORTAC R-027 to GEG VORTAC and hold.

ATIS 124.325 254.375	SPOKANE APP CON 123.75 282.25 (WEST) 133.35 263.0 (EAST)	SPOKANE TOWER 118.3 278.3	GND CON 121.9 348.6	CLNC DEL 127.55
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Autoland NA when weather below 300/1 except for operators authorized Cat III ILS autoland.



DME REQUIRED

4200
GEG
115.5

VGSI and ILS glidepath
not coincident.

LUCEV
I-GEG 12.8

One Minute
Holding Pattern

5500
028°
208°

GS 3.00°
TCH 59

CATEGORY	A	B	C	D
S-ILS 21	RA 147/16 100 DA 2446			

CATEGORY II ILS - SPECIAL AIRCREW
& AIRCRAFT CERTIFICATION REQUIRED

NW-1. 08 APR 2010 to 06 MAY 2010

LOC/DME I-GEG	APP CRS	Rwy Idg	9001
111.1	208°	TDZE	2346
Chan 48		Apt Elev	2376

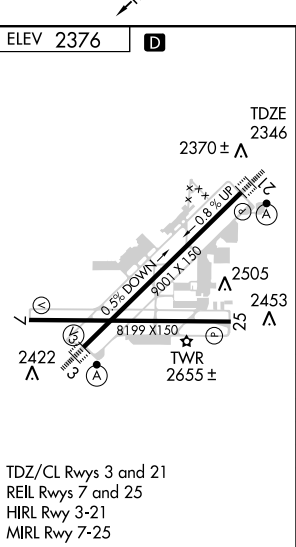
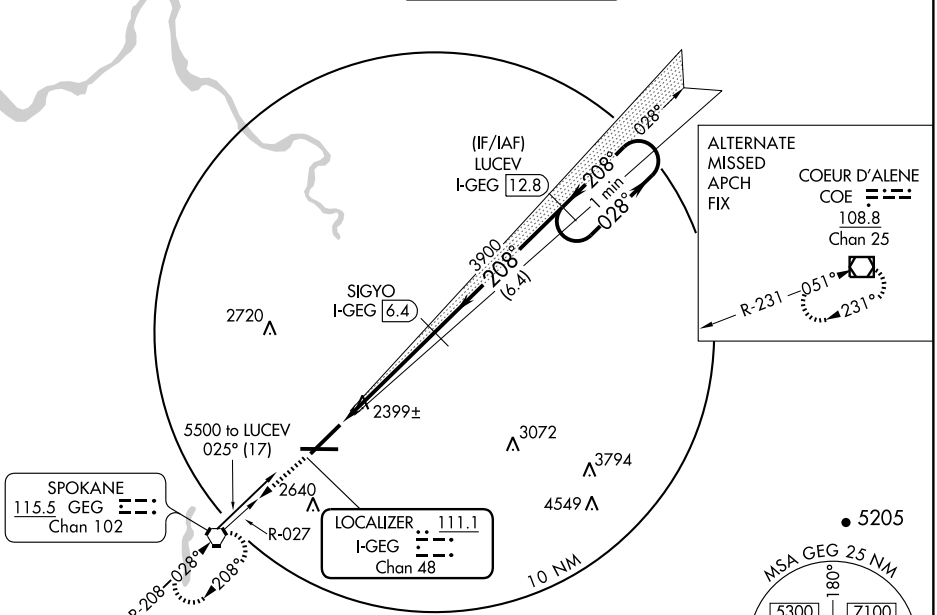
ILS RWY 21 (CAT III)

SPOKANE INTL (GEG)

ALSF-2

MISSED APPROACH: Climb to 4200 via GEG VORTAC R-027 to GEG VORTAC and hold.

ATIS	SPOKANE APP CON	SPOKANE TOWER	GND CON	CLNC DEL
124.325 254.375	123.75 282.25 (WEST) 133.35 263.0 (EAST)	118.3 278.3	121.9 348.6	127.55



SPECIAL AUTOLAND

EVALUATION REQUIRED

DME REQUIRED

4200

GEG

115.5

Use I-GEG DME when on LOC course.

VGSI and ILS glidepath not coincident.

SIGYO I-GEG 6.4

LUCEV I-GEG 12.8

One Minute Holding Pattern

2346 MSL

3900

3900

5500

GS 3.00° TCH 59

CATEGORY	A	B	C	D
S-ILS 21		CAT IIIa	RVR 07	
S-ILS 21		CAT IIIb	RVR 06	
S-ILS 21		CAT IIIc	NA	

CATEGORY III ILS - SPECIAL AIRCREW

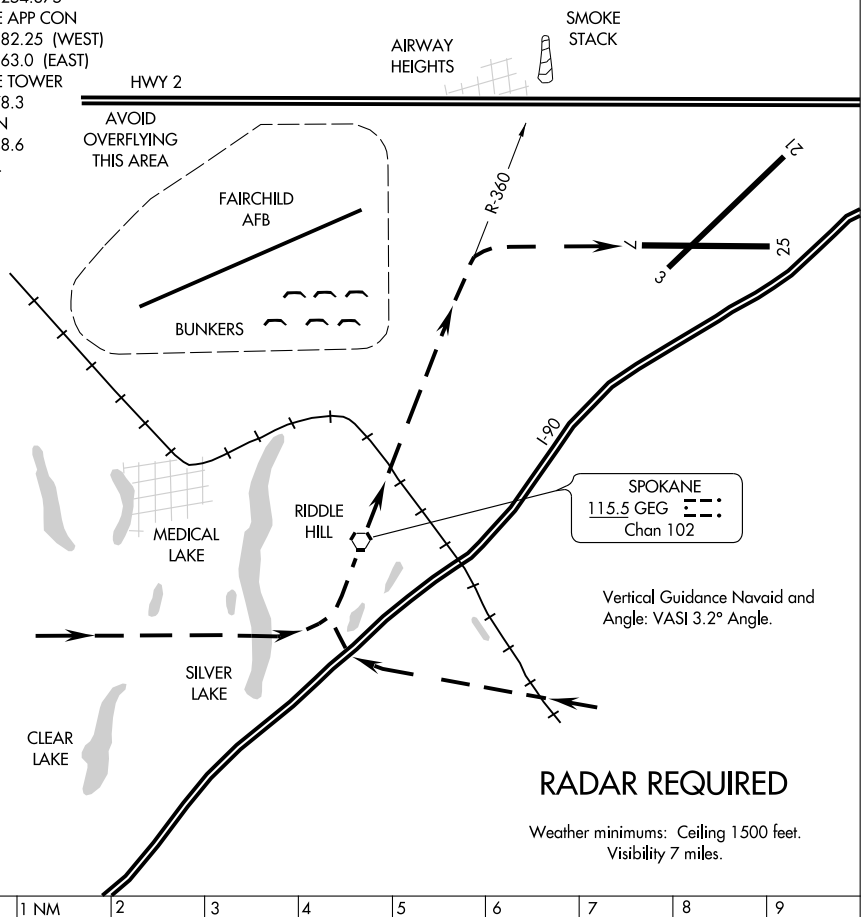
& AIRCRAFT CERTIFICATION REQUIRED

RIDDLE HILL VISUAL RWY 7

AL-403 (FAA)

SPOKANE INTL (GEG)
SPOKANE, WASHINGTON

ATIS
124.325 254.375
SPOKANE APP CON
123.75 282.25 (WEST)
133.35 263.0 (EAST)
SPOKANE TOWER
118.3 278.3
GND CON
121.9 348.6
CLNC DEL
127.55



RIDDLE HILL VISUAL APPROACH RWY 7

PROCEDURE NOT AUTHORIZED AT NIGHT.

AL-403 (FAA)

APP CRS	Rwy Idg	9001
027°	TDZE	2371
	Apt Elev	2376

RNAV (GPS) RWY 3
SPOKANE INTL (GEG)

T DME/DME RNP-0.3 NA.
For uncompensated Baro-VNAV systems, LNAV/VNAV
NA below -19°C (-2°F) or above 43°C (110°F).

ALSF-2

MISSED APPROACH: Climb to 5000 direct PHORT LOM and hold.

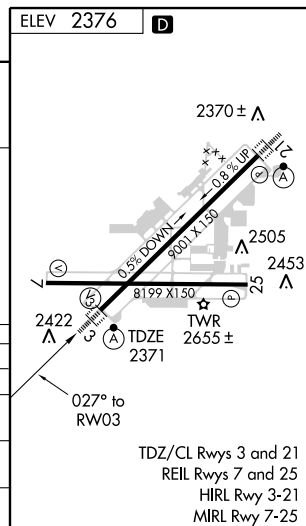
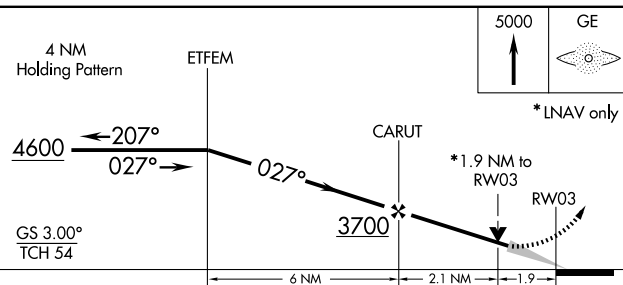
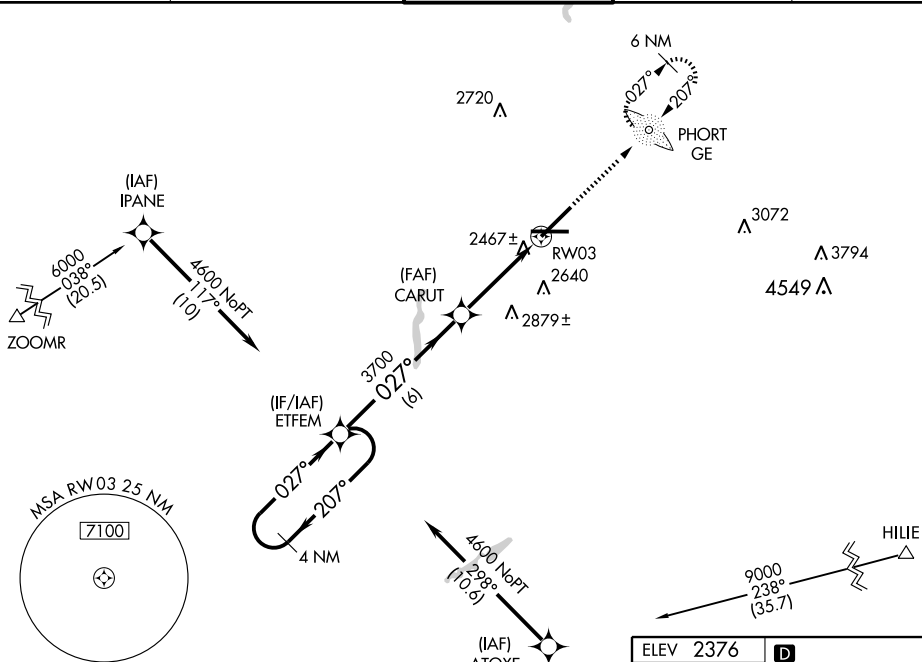
ATIS
124.325 254.375

SPOKANE APP CON
123.75 282.25 (WEST)
133.35 263.0 (EAST)

SPOKANE TOWER
118.3 278.3

GND CON
121.9 348.6

CLNC DEL
127.55



CATEGORY		A	B	C	D
GLS PA	DA	NA			
LNAV/ VNAV	DA	2979-2 608 (700-2)			
LNAV	MDA	3020/24 649 (700-½)	3020/60 649 (700-1¼)		3020-1½ 649 (700-1½)
CIRCLING		3020-1 644 (700-1)	3020-1¾ 644 (700-1¾)		3020-2 644 (700-2)

NW-1 08 APR 2010 to 06 MAY 2010

WAAS CH 48801 W07A	APP CRS 072°	Rwy Idg TDZE Apt Elev	8199 2376 2376
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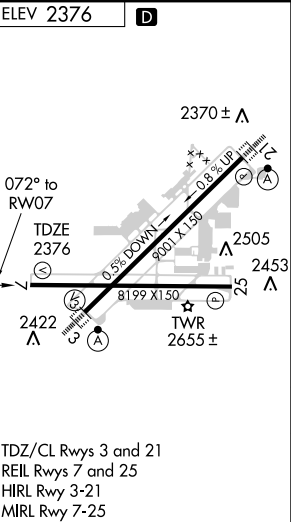
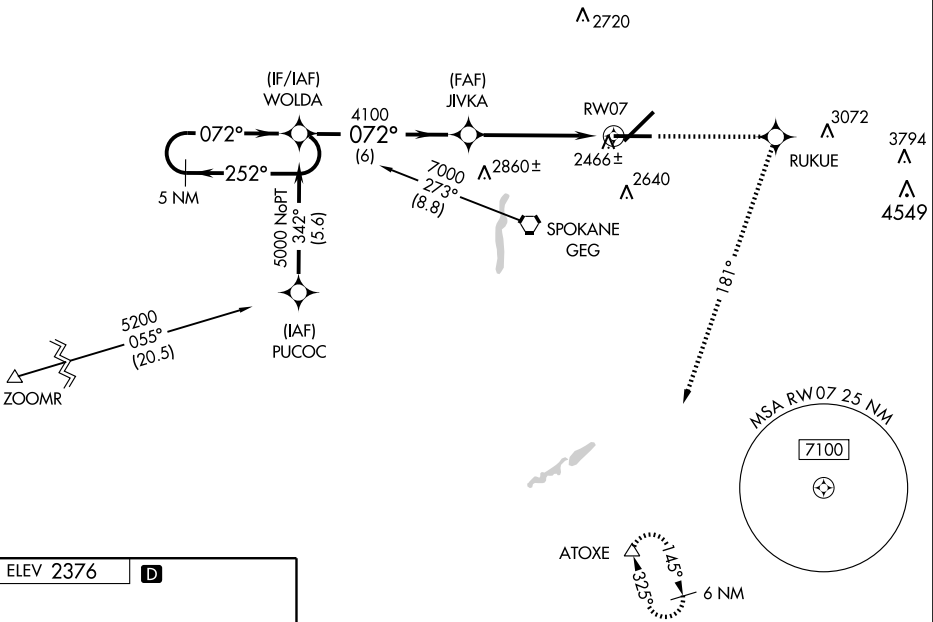
RNAV (GPS) RWY 7
SPOKANE INTL (GEG)

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -19°C (-2°F) or above 44°C (111°F).
DME/DME RNP-0.3 NA.
Visibility reduction by helicopters NA.

MISSED APPROACH: Climb to 6000 direct RUKUE and via 181° track to ATOXE and hold, continue climb-in-hold to 6000.

ATIS 124.325 254.375	SPOKANE APP CON 123.75 282.25 (WEST) 133.35 263.0 (EAST)	SPOKANE TOWER 118.3 278.3	GND CON 121.9 348.6	CLNC DEL 127.55
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Procedure NA for arrivals at GEG VORTAC via V120 northbound.



5 NM Holding Pattern		WOLDA		6000 ↑	RUKUE ✦	181° track	ATOXE △
5000 ← 252° 072° →		072°		JIVKA	* 1.1 NM to RW07		* LNAV only
GS 3.00° TCH 60		4100		6 NM		4.1 NM	1.1
CATEGORY	A	B	C	D			
LPV DA	2626-1 250 (300-1)						
LNAV/ VNAV DA	2786-1½ 410 (500-1½)						
LNAV MDA	2800-1	424 (500-1)	2800-1¼ 424 (500-1¼)				
CIRCLING	2960-1	584 (600-1)	2960-1½ 584 (600-1½)		2980-2 604 (700-2)		

TDZ/CL Rwy 3 and 21
REIL Rwy 7 and 25
HIRL Rwy 3-21
MIRL Rwy 7-25

APP CRS	Rwy Idg	9001
208°	TDZE	2346
	Apt Elev	2376

RNAV (GPS) RWY 21

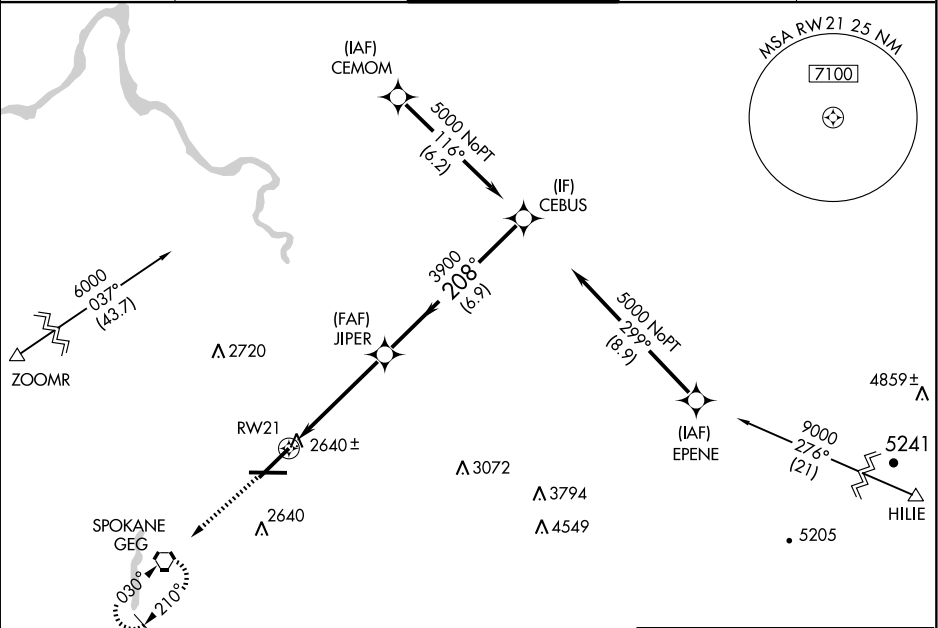
SPOKANE INTL (GEG)

V For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -19°C (-2°F) or above 44°C (111°F).
DME/DME RNP-0.3 NA.

ALSF-2

MISSED APPROACH: Climb to 4200 direct GEG VORTAC and hold.

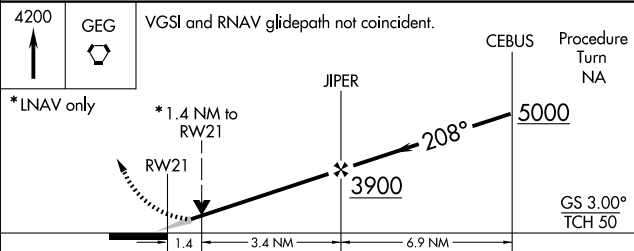
ATIS	SPOKANE APP CON	SPOKANE TOWER	GND CON	CLNC DEL
124.325 254.375	123.75 282.25 (WEST) 133.35 263.0 (EAST)	118.3 278.3	121.9 348.6	127.55



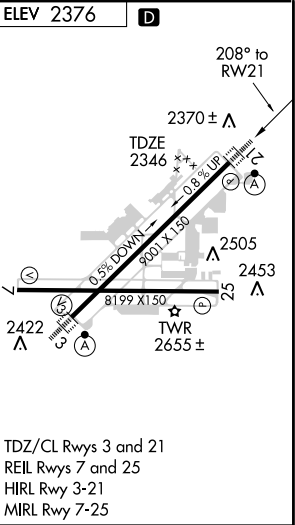
4200 GEG VGSI and RNAV glidepath not coincident.

*LNAV only

JIPER CEBUS Procedure Turn NA



CATEGORY	A	B	C	D
GLS PA DA	NA			
LNAV/VNAV DA	2720/50 374 (400-1)			2720/50 374 (400-1)
LNAV MDA	2800/24 454 (500-½)	2800/40 454 (500-¾)	2800/50 454 (500-1)	2800/50 454 (500-1)
CIRCLING	2960-1 584 (600-1)	2960-1 584 (600-1)	2960-1½ 584 (600-1½)	2980-2 604 (700-2)



WAAS
CH 93501
W25A

APP CR
253°

Rwy Idg	8199
TDZE	2372
Apt Elev	2376

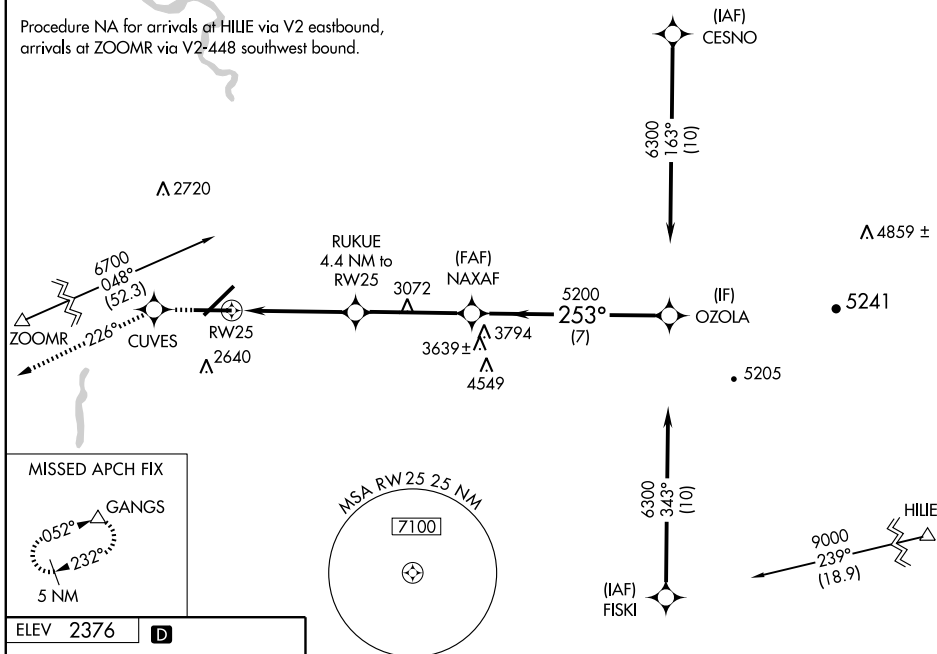
RNAV (GPS) RWY 25
SPOKANE INTL (GEG)

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -19°C (-2°F) or above 44°C (111°F).
DME/DME RNP-0.3 NA.
Visibility reduction by helicopters NA.

MISSED APPROACH: Climb to 5000 direct CUVES and via 226° track to GANGS and hold.

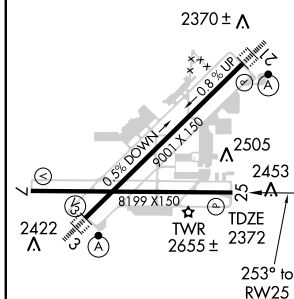
ATIS	SPOKANE APP CON	SPOKANE TOWER	GND CON	CLNC DEL
124.325 254.375	123.75 282.25 (WEST) 133.35 263.0 (EAST)	118.3 278.3	121.9 348.6	127.55

Procedure NA for arrivals at HILIE via V2 eastbound,
arrivals at ZOOMR via V2-448 southwest bound.

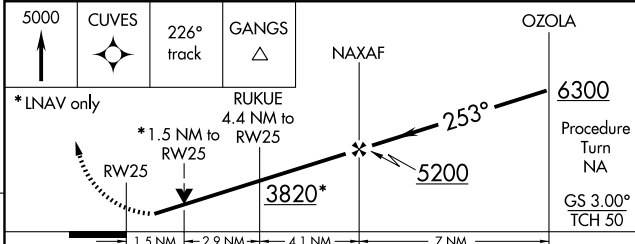


NW-1. 08 APR 2010 to 06 MAY 2010

ELEV 2376



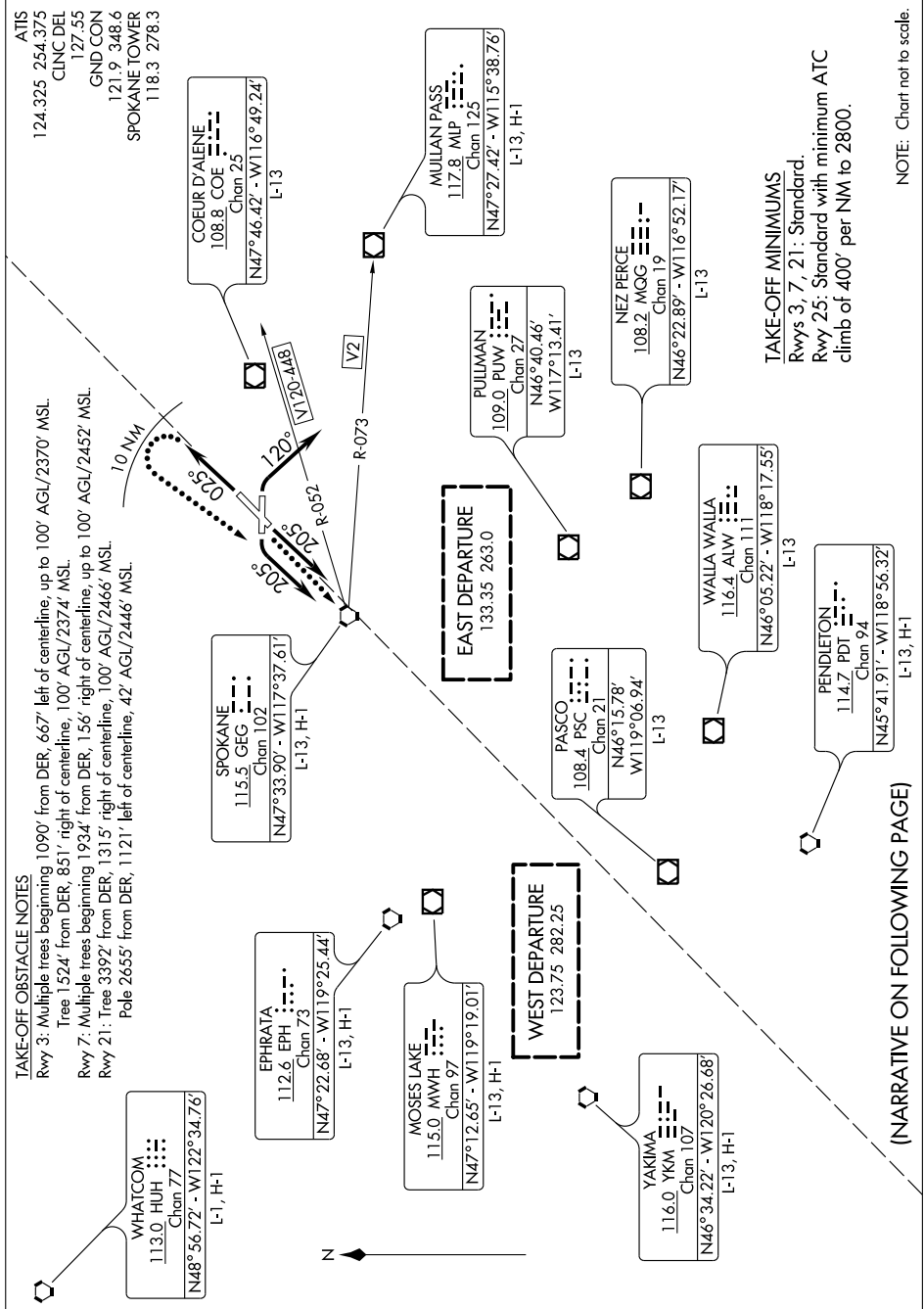
TDZ/CL Rwy 3 and 21
REIL Rwy 7 and 25
HIRL Rwy 3-21
MIRL Rwy 7-25



CATEGORY		A		B		C		D	
LPV	DA	2704-1¼		332 (400-1¼)					
LNAV/ VNAV	DA	2782-1½		410 (500-1½)					
LNAV	MDA	2900-1	528 (600-1)	2900-1½ 528 (600-1½)		2900-1¾ 528 (600-1¾)			
CIRCLING		2960-1	584 (600-1)	2960-1½ 584 (600-1½)		2980-2 604 (700-2)			

SPOKANE EIGHT DEPARTURE

SL-403 (FAA)

SPOKANE INTL (GEG)
SPOKANE, WASHINGTON



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 3: Turn left heading 025°, expect radar vectors to assigned airway/route. Thence....

TAKE-OFF RUNWAY 7: Turn right heading 120°, expect radar vectors to assigned airway/route. Thence....

TAKE-OFF RUNWAY 21: Turn left heading 205°, expect radar vectors to assigned airway/route. Thence....

TAKE-OFF RUNWAY 25: Turn left heading 205°, expect radar vectors to assigned airway/route. Thence....

....maintain 12000' or assigned lower altitude, expect filed altitude/flight level 10 minutes after departure.

LOST COMMUNICATIONS: Climb direct GEG VORTAC before proceeding on course. Cross GEG VORTAC at or above: NE-bound V120-448 3900'; E-bound V2 4200'. Aircraft departing RWY 3, if not in contact with ATC within 10 NM after takeoff, turn left direct GEG VORTAC, cross GEG VORTAC at or above 4200', thence via assigned fix/route.

VOR RWY 3
SPOKANE INTL (GEG)

VORTAC GEG 115.5 Chan 102	APP CRS 028°	Rwy Idg 9001 TDZE 2371 Apt Elev 2376
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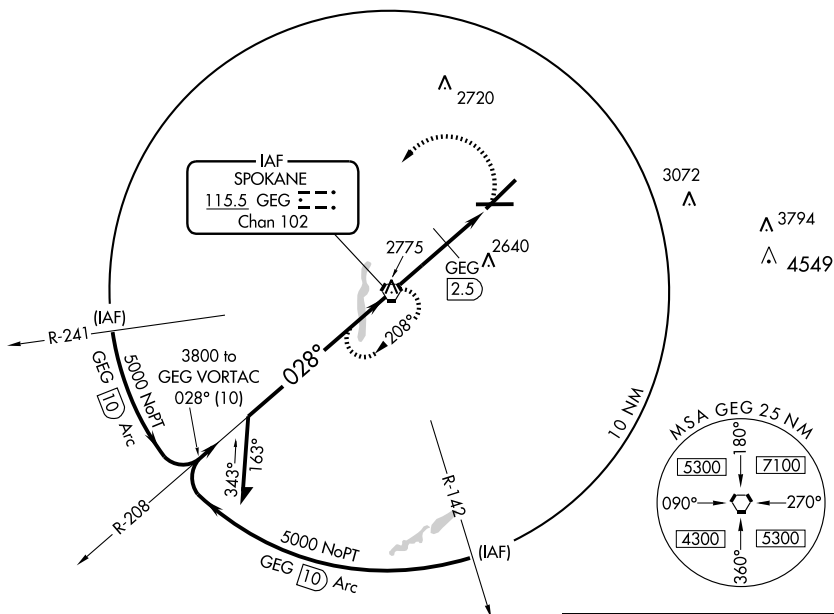
Circling Southeast of Rwy 3-21 not authorized
Category E.

ALSF-2

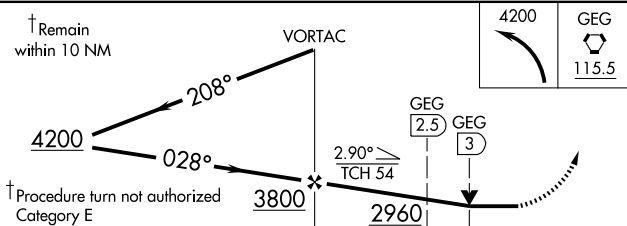


MISSED APPROACH: Climbing left turn to 4200 direct to GEG VORTAC and hold.

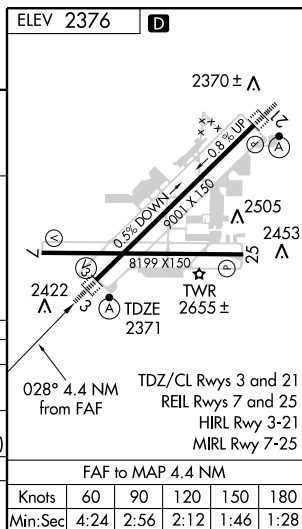
ATIS	SPOKANE APP CON	SPOKANE TOWER	GND CON	CLNC DEL
124.325 254.375	123.75 282.25 (WEST) 133.35 263.0 (EAST)	118.3 278.3	121.9 348.6	127.55



NW-1. 08 APR 2010 to 06 MAY 2010

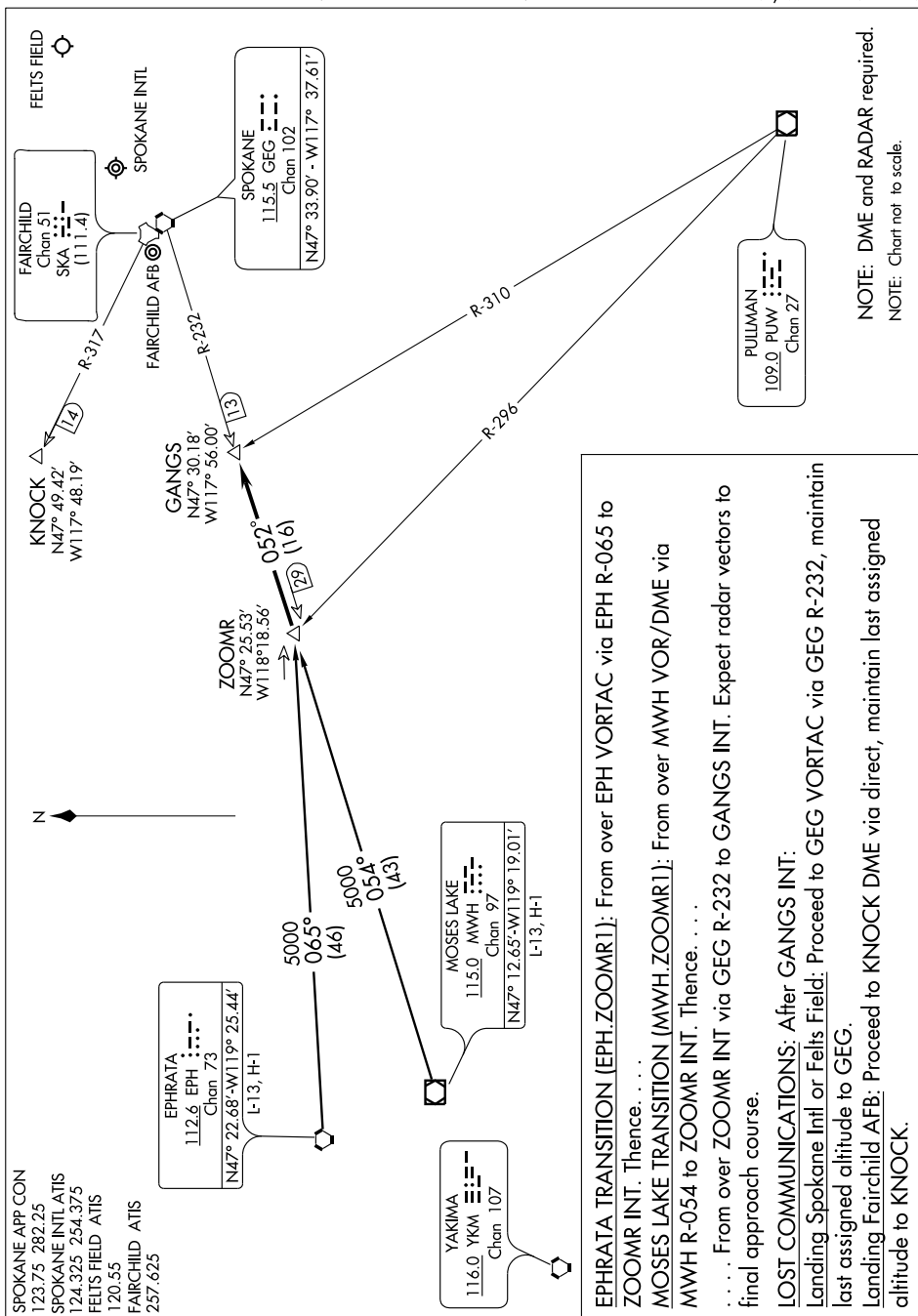


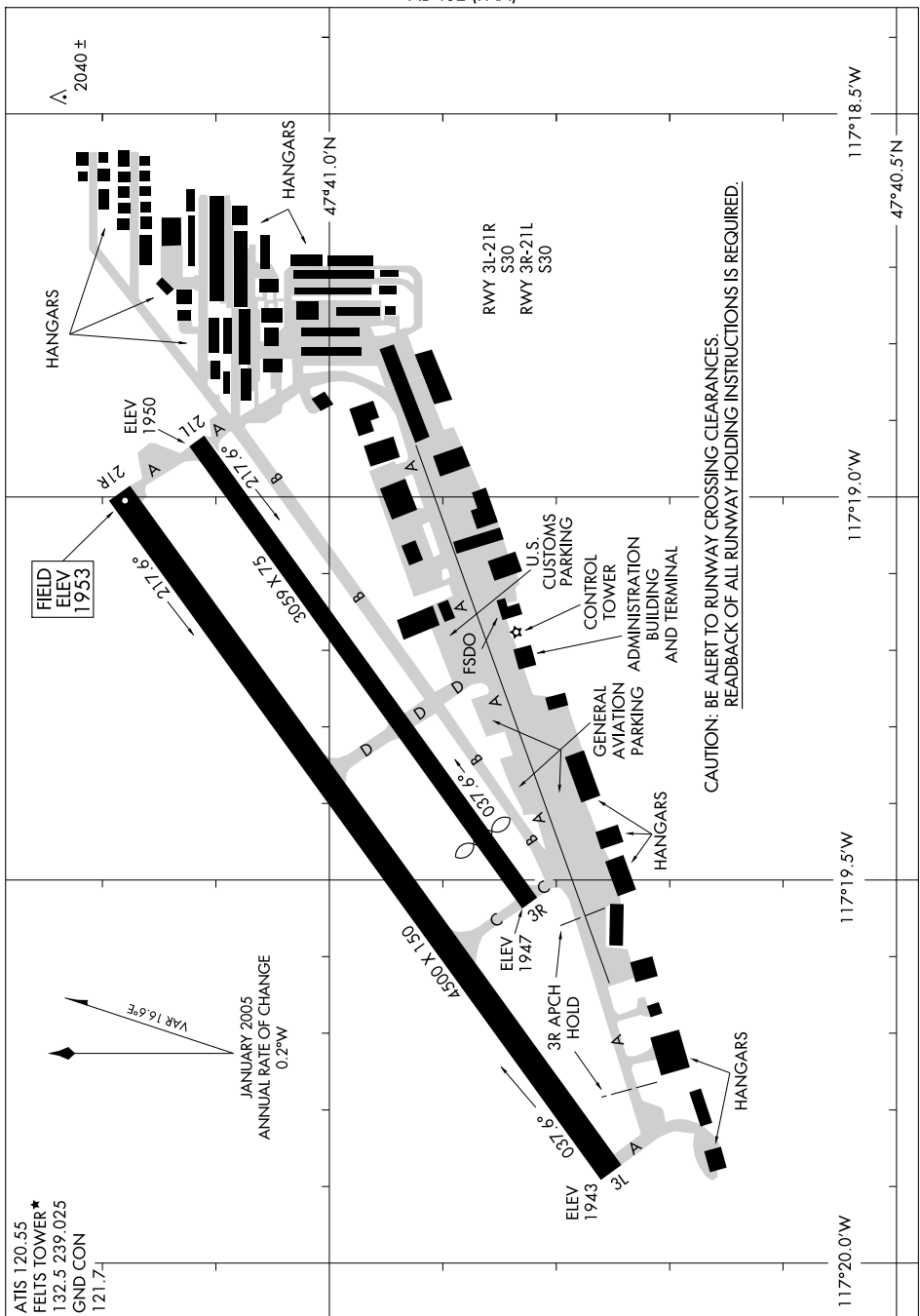
			2.5 NM	0.5	1.4 NM	
CATEGORY	A	B	C	D	E	
S-3	2960/24 589 (600-½)	2960/50 589 (600-1)	2960/60 589 (600-1¼)			
CIRCLING	2960-1 584 (600-1)	2960-1½ 584 (600-1½)	2960-2 584 (600-2)	3080-2½ 704 (800-2½)		
DME MINIMA						
S-3	2880/24 509 (600-½)	2880/50 509 (600-1)	2880/60 509 (600-1¼)			



ZOOMR ONE ARRIVAL (ZOOMR.ZOOMR1)

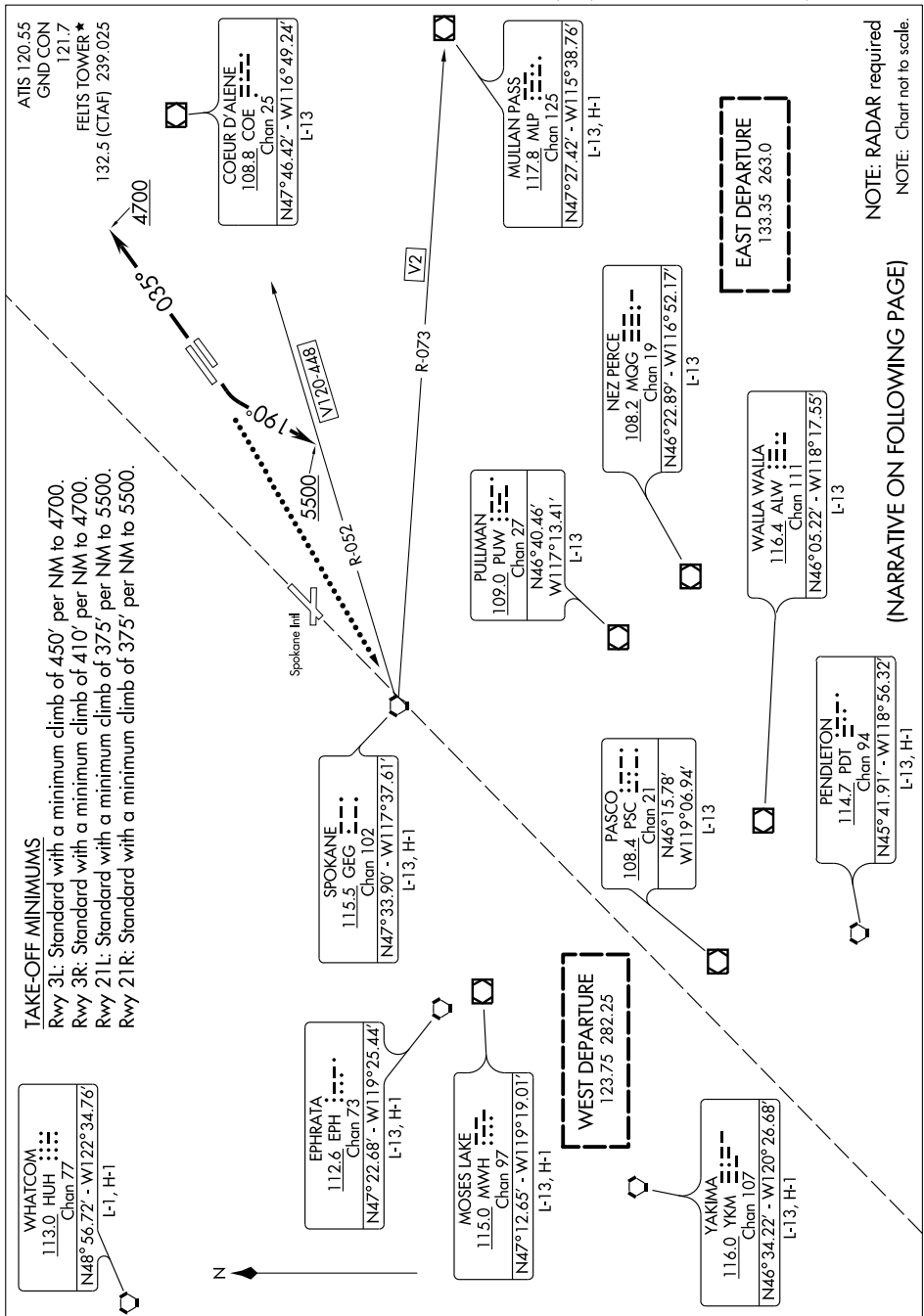
SPOKANE, WASHINGTON





FELTS TWO DEPARTURE

SL-402 (FAA)

SPOKANE/FELTS FIELD (SFF)
SPOKANE, WASHINGTON



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 3L/R: Climb heading 035° to 4700, expect RADAR vectors to assigned airway/route. Thence....

TAKE-OFF RUNWAY 21L/R: Climbing left turn heading 190° to 5500, expect RADAR vectors to assigned airway/route. Thence....

....maintain 12000' or assigned lower altitude, expect filed altitude/flight level 10 minutes after departure.

LOST COMMUNICATIONS: Climb direct GEG VORTAC before proceeding on course. Cross GEG VORTAC at or above: NE-bound V120-448 and E-bound V2 5200'.

TAKE-OFF OBSTACLE NOTES

Rwy 3L: Trees beginning 1853' from DER, 772' right of centerline, up to 100' AGL/2037' MSL.

Trees beginning 3538' from DER, 529' left of centerline, up to 100' AGL/2339' MSL.

Antenna, trees and transmission poles beginning 1.5 NM from DER, 16' left of centerline, up to 100' AGL/2579' MSL.

Trees beginning 2.3 NM from DER, 723' right of centerline, up to 100' AGL/2499' MSL.

Rwy 3R: Hangar, NDB, and trees beginning 92' from DER, 269' right of centerline, up to 100' AGL/2040' MSL.

Trees beginning 4685' from DER, 1033' left of centerline, up to 100' AGL/2339' MSL.

Antenna, trees and transmission poles beginning 1.6 NM from DER, 525' left of centerline, up to 100' AGL/2559' MSL.

Trees and transmission poles beginning 2.6 NM from DER, 214' right of centerline, up to 150' AGL/2570' MSL.

Rwy 21L: Elevator, pole on building and trees beginning 315' from DER, 302' left of centerline, up to 140' AGL/2080 MSL.

Rwy 21R: Poles and trees beginning 188' from DER, 13' right of centerline, up to 100' AGL/1982' MSL.

Elevator, pole hangar and building beginning 203' from DER, 1' left of centerline, up to 140' AGL/2080' MSL.

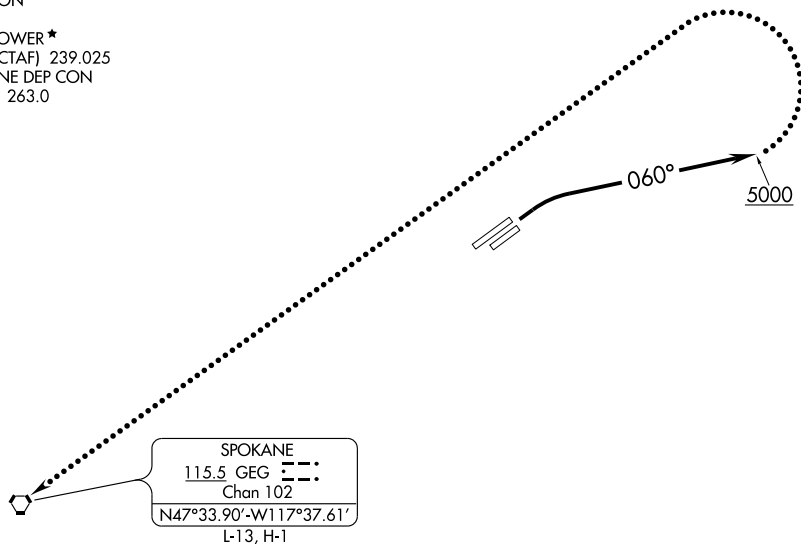
Terrain and trees beginning 3.1 NM from DER, 4904' left of centerline, up to 100' AGL/2559' MSL.

HAYDEN TWO DEPARTURE

SL-402 (FAA)

SPOKANE/FELTS FIELD (SFF)
SPOKANE, WASHINGTON

ATIS 120.55
GND CON
121.7
FELTS TOWER ★
132.5 (CTAF) 239.025
SPOKANE DEP CON
133.35 263.0



NOTE: RADAR required.

TAKE-OFF MINIMUMS

Rwy 21L/21R: NA- ATC.

Rwy 3L/3R: Standard with minimum climb of 410' per NM to 5000.

TAKE-OFF OBSTACLE NOTES

Rwy 3L: Trees beginning 1853' from DER, 772' right of centerline, up to 100' AGL/2037' MSL.

Trees beginning 3538' from DER, 529' left of centerline, up to 100' AGL/2339' MSL.

Antenna, trees and transmission poles beginning 1.5 NM from DER, 16' left of centerline, up to 100' AGL/2579' MSL.

Trees beginning 2.3 NM from DER, 723' right of centerline, up to 100' AGL/2499' MSL.

Rwy 3R: Hangar, NDB, and trees beginning 92' from DER, 269' right of centerline, up to 100' AGL/2040' MSL.

Trees beginning 4685' from DER, 1033' left of centerline, up to 100' AGL/2339' MSL.

Antenna, trees and transmission poles beginning 1.6 NM from DER, 525' left of centerline, up to 100' AGL/2559' MSL.

Trees and transmission poles beginning 2.6 NM from DER, 214' right of centerline, up to 150' AGL/2570' MSL.

NOTE: Chart not to scale.

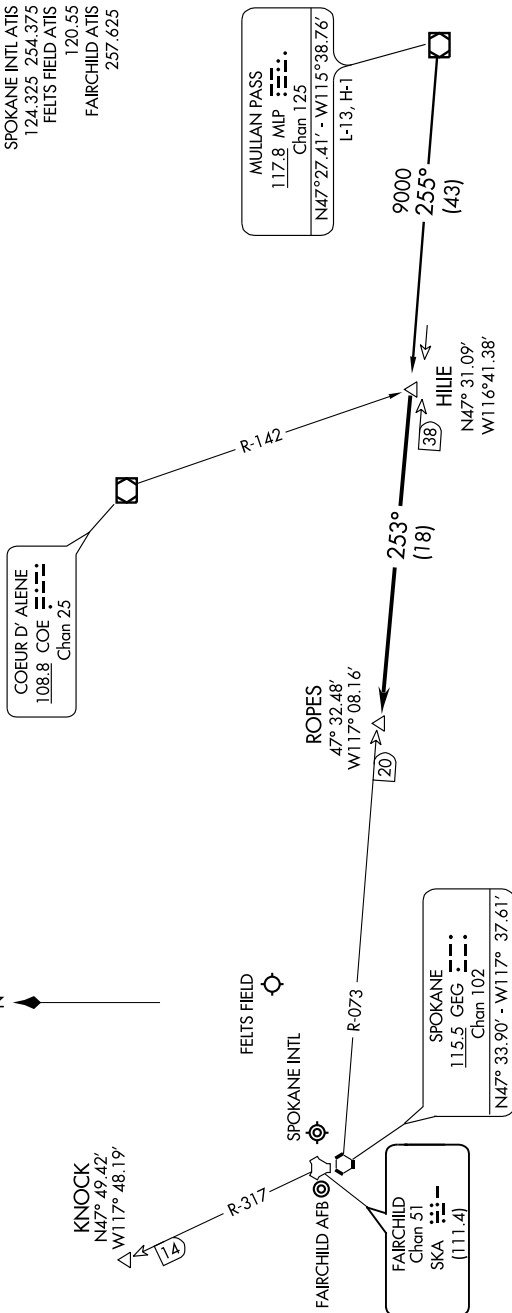
DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 3L/R: Climbing right turn heading 060° to 5000'.

Expect RADAR vectors to (assigned route) or (fix).

LOST COMMUNICATIONS: If not in radio contact with departure control after leaving 3000', continue climb to 5000', then turn left, proceed direct to GEG VORTAC and thence proceed on course.

SPOKANE APP CON
133.35 263.0
SPOKANE INIT ATIS
124.325 254.375
FELTS FIELD ATIS
120.55
FAIRCHILD ATIS
257.625



NOTE: DME and RADAR required.
NOTE: Chart not to scale.

MULLAN PASS TRANSITION (MLP.HILIE1): From over MLP VOR/DME via MLP R-255 to HILIE INT. Thence. . .

. . . From over HILIE INT via GEG R-073 to ROPES INT. Expect radar vectors to final approach course.

LOST COMMUNICATIONS: After ROPES INT:

Landing Spokane Intl or Felts Field: Proceed to GEG VORTAC via GEG R-073, maintain last assigned altitude to GEG.

Landing Fairchild AFB: Proceed to KNOCK DME via direct, maintain last assigned altitude to KNOCK.

⚠

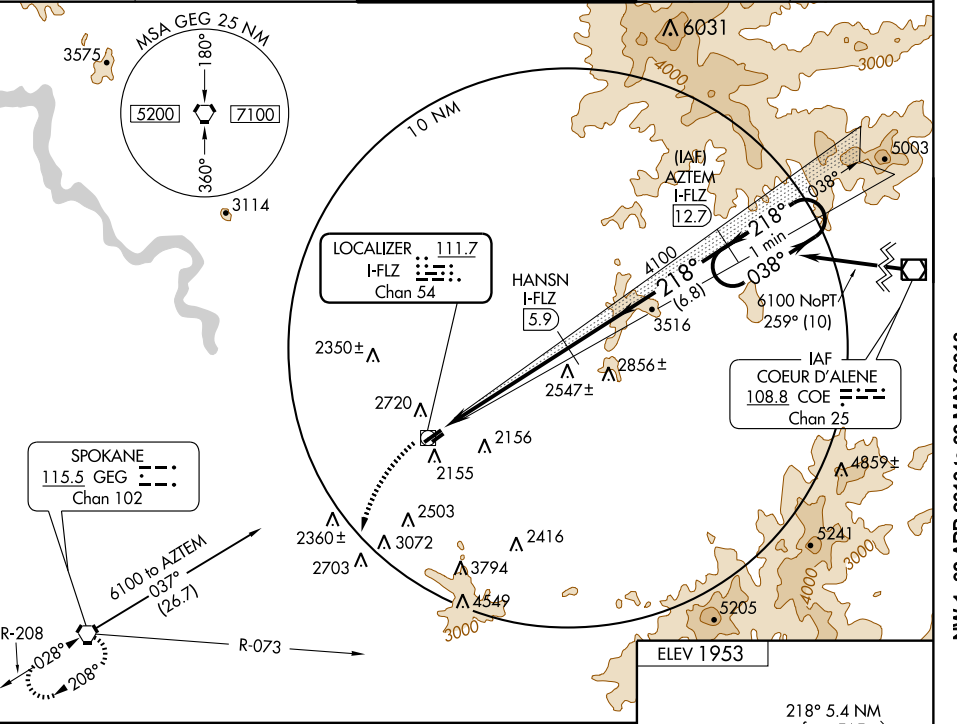
⚠

Circling not authorized northwest of Rwy 3L-21R.
Inoperative table does not apply.

MALSR

MISSED APPROACH: Climb to 3100 then climbing left turn to 5000 via heading 200° and GEG R-073 to GEG VORTAC and hold.

ATIS 120.55	SPOKANE APP CON 133.35 263.0	FELTS TOWER ★ 132.5 (CTAF) 239.025	GND CON 121.7	UNICOM 122.95
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3100

5000

Hdg 200°

GEG R-073 115.5

GEG 115.5

AZTEM I-FLZ 12.7

One Minute Holding Pattern

HANSN I-FLZ 5.9

I-FLZ 0.7

4087

4100

6100

GS 3.60° TCH 43

CATEGORY	A	B	C	D
S-ILS 21R	2223-3/4	270 (300-3/4)		NA
S-LOC 21R	2860-1 1/4 907 (1000-1 1/4)		2860-2 3/4 907 (1000-2 3/4)	NA
CIRCLING	2860-1 1/4 907 (1000-1 1/4)		2860-2 3/4 907 (1000-2 3/4)	NA

ELEV 1953

218° 5.4 NM from FAF

TDZE 1953

LOC/DME 4500 X 150 2059 X 75

TWR 2037

2000±

REIL Rwy 3L 1


MRL Rwy 3L-21R 1

NW-1. 08 APR 2010 to 06 MAY 2010

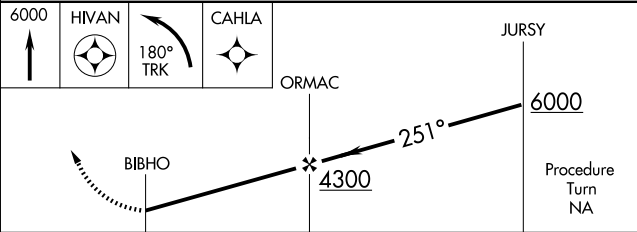
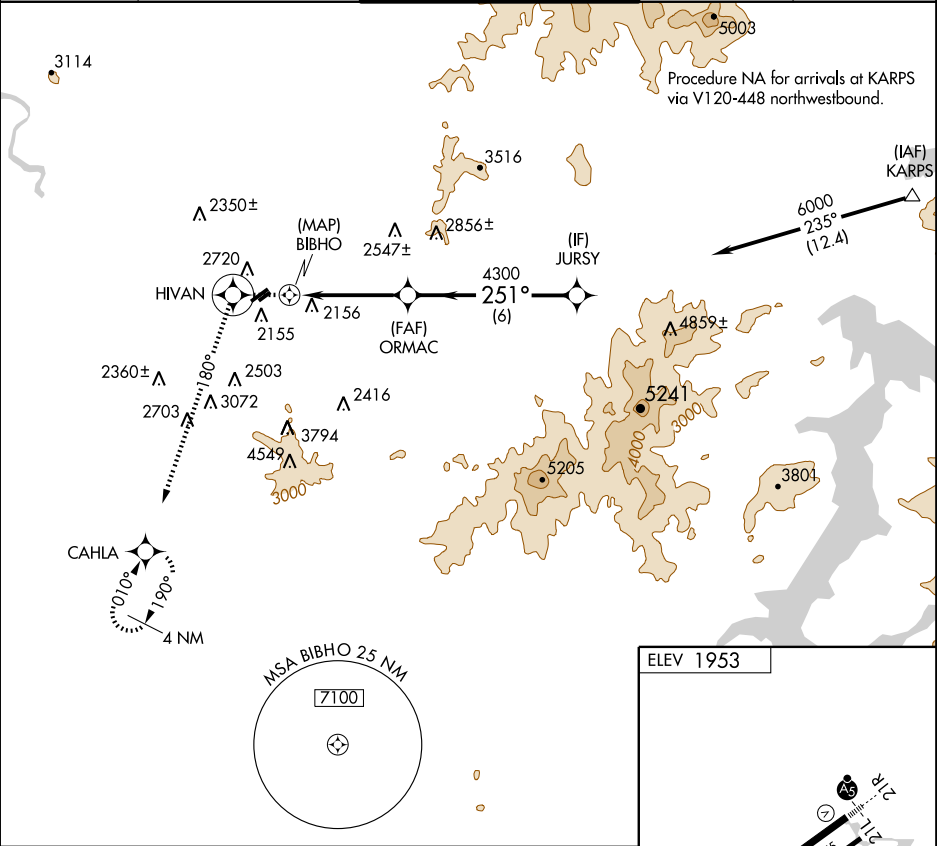
RNAV (GPS)-A

SPOKANE / FELTS FIELD (SFF)

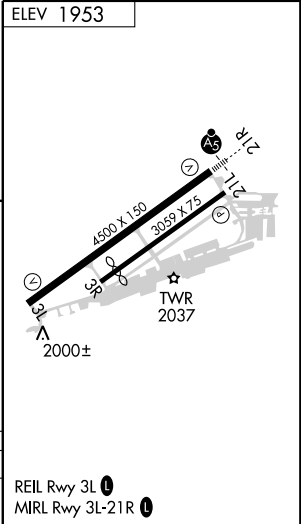
APP CRS	Rwy Idg	N/A
251°	TDZE	N/A
	Apt Elev	1953

 	DME/DME RNP- 0.3 NA. Circling NA northwest of Rwy 3L-21R.	MISSED APPROACH: Climb to 6000 direct HIVAN and left turn via 180° track to CAHLA and hold.
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ATIS 120.55	SPOKANE APP CON 133.35 263.0	FELTS TOWER ★ 132.5 (CTAF) 239.025	GND CON 121.7	UNICOM 122.95
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CATEGORY	A	B	C	D
CIRCLING	2880-1¼ 927 (1000-1¼)		2880-2¾ 927 (1000-2¾)	2880-3 927 (1000-3)

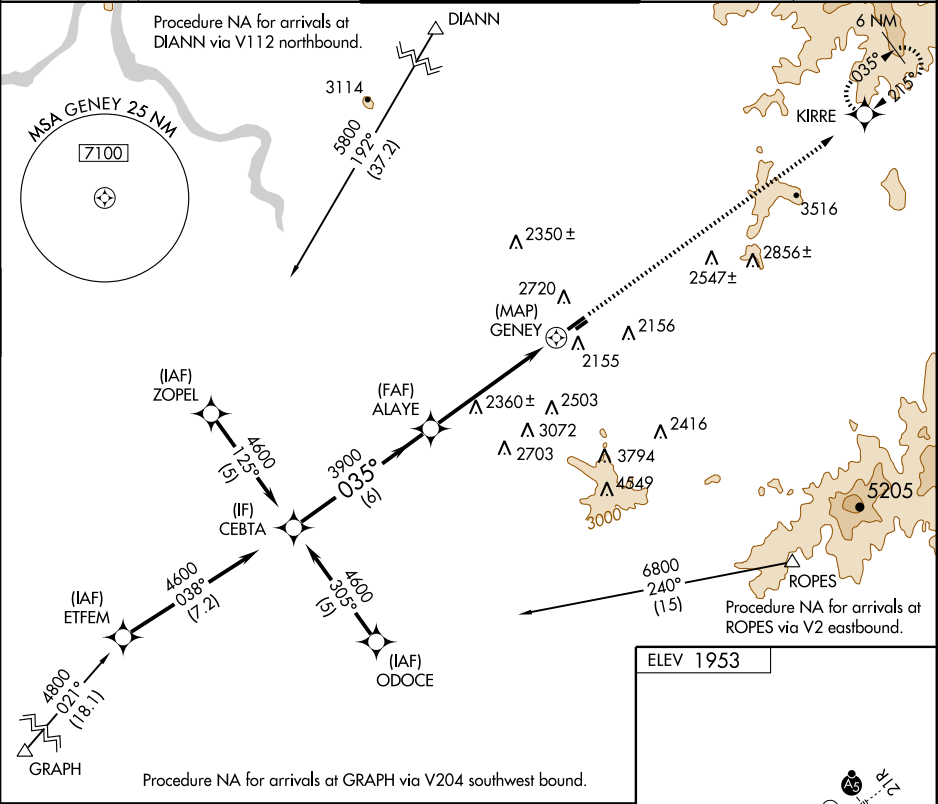


APP CRS	Rwy Idg	4500
035°	TDZE	1945
	Apt Elev	1953

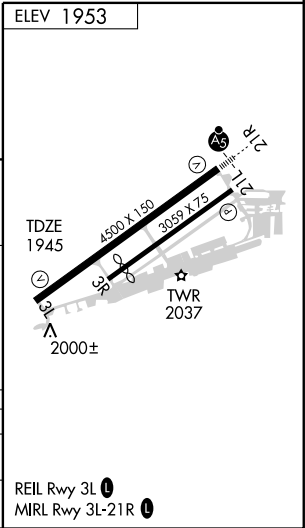
RNAV (GPS) RWY 3L

SPOKANE / FELTS FIELD (SFF)

<div><div>V</div><div>A</div></div>	Circling NA northwest of Rwy 3L-21R. Circling NA at night to Rwy 3R-21L. DME/DME RNP- 0.3 NA.	MISSED APPROACH: Climb to 7100 direct KIRRE and hold.		
ATIS 120.55	SPOKANE APP CON 133.35 263.0	FELTS TOWER ★ 132.5 (CTAF) 0 239.025	GND CON 121.7	UNICOM 122.95



CEPTA		ALAYE		7100	KIRRE
4600		3900		↑	✧
Procedure Turn NA		2.99° TCH 50			
6 NM		5.5 NM		0.5 NM	
CATEGORY	A	B	C	D	
LNAV MDA	2880-1¼	935 (1000-1¼)	2880-2¾ 935 (1000-2¾)	2880-3 935 (1000-3)	
CIRCLING	2880-1¼	927 (1000-1¼)	2880-2¾ 927 (1000-2¾)	2880-3 927 (1000-3)	



VORTAC GEG	APP CRS	Rwy Idg	4500
115.5	039°	TDZE	1945
Chan 102		Apt Elev	1953

VOR RWY 3L

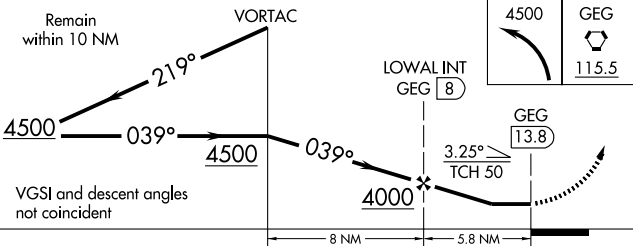
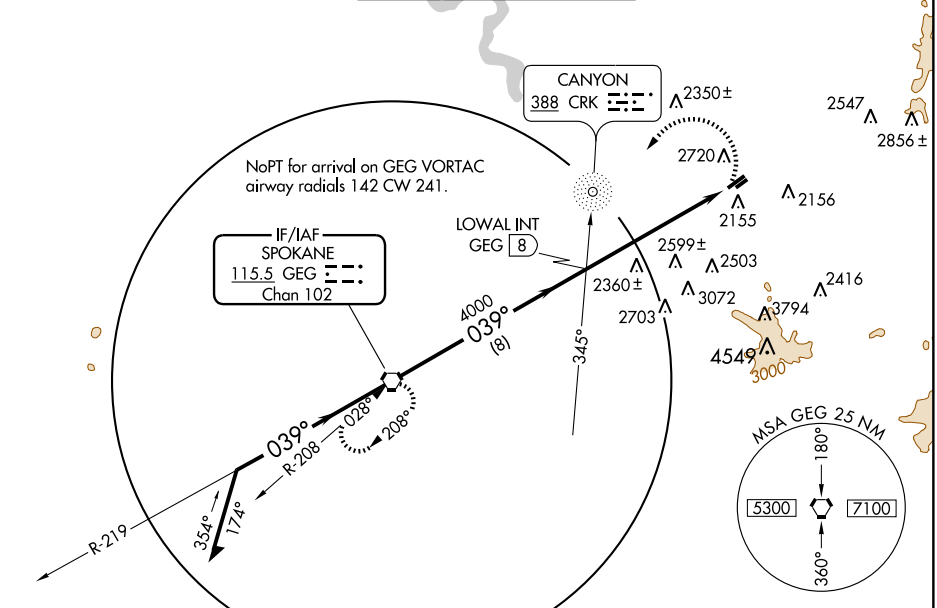
SPOKANE / FELTS FIELD (SFF)

- ⚠

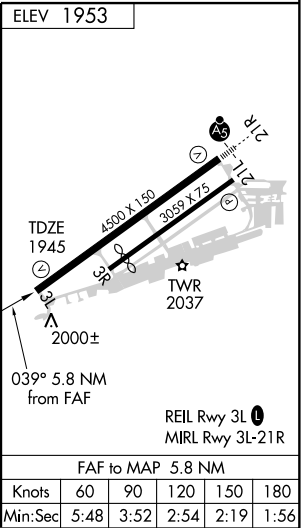
Circling NA northwest of Rwy 3L-21R.
Visibility reduction by helicopters NA.
ADF or DME required.
When local altimeter setting not received, use Spokane altimeter setting and increase all MDA 100 feet.

MISSED APPROACH: Climbing left turn to 4500 direct GEG VORTAC and hold.

ATIS	SPOKANE APP CON	FELTS TOWER ★	GND CON	UNICOM
120.55	133.35 263.0	132.5 (CTAF) 239.025	121.7	122.95



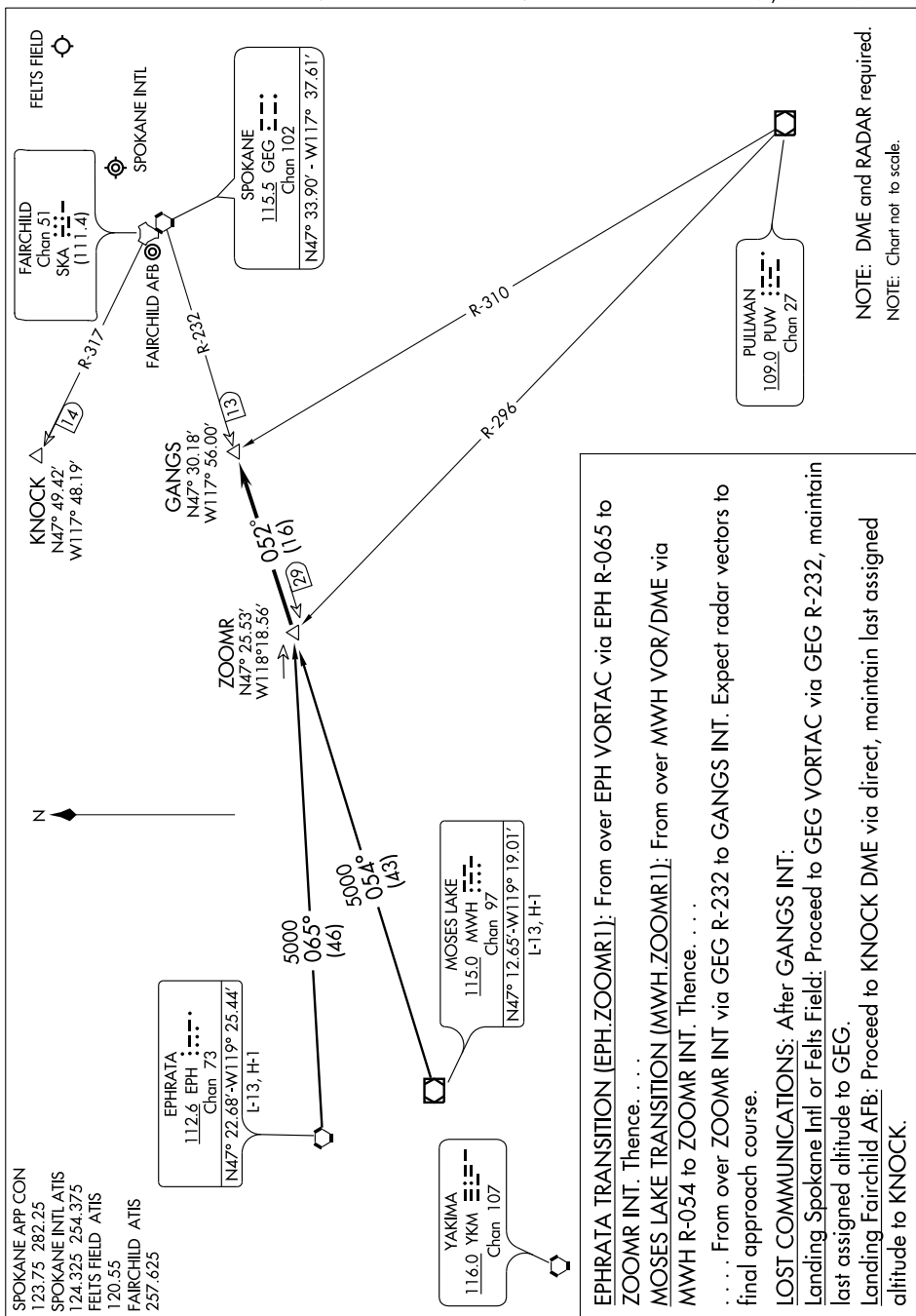
CATEGORY	A	B	C	D
S-3L	2920-1¼ 975 (1000-1¼)	2920-1½ 975 (1000-1½)	2920-3 975 (1000-3)	
CIRCLING	2920-1¼ 967 (1000-1¼)	2920-1½ 967 (1000-1½)	2920-3 967 (1000-3)	



NW-1. 08 APR 2010 to 06 MAY 2010

ZOOMR ONE ARRIVAL (ZOOMR.ZOOMR1)

SPOKANE, WASHINGTON



EPHRATA TRANSITION (EPH.ZOOMR1): From over EPH VORTAC via EPH R-065 to ZOOMR INT. Thence. . . .

MOSES LAKE TRANSITION (MWH.ZOOMR1): From over MWH VOR/DME via MWH R-054 to ZOOMR INT. Thence. . . .

. . . . From over ZOOMR INT via GEG R-232 to GANGS INT. Expect radar vectors to final approach course.

LOST COMMUNICATIONS: After GANGS INT:

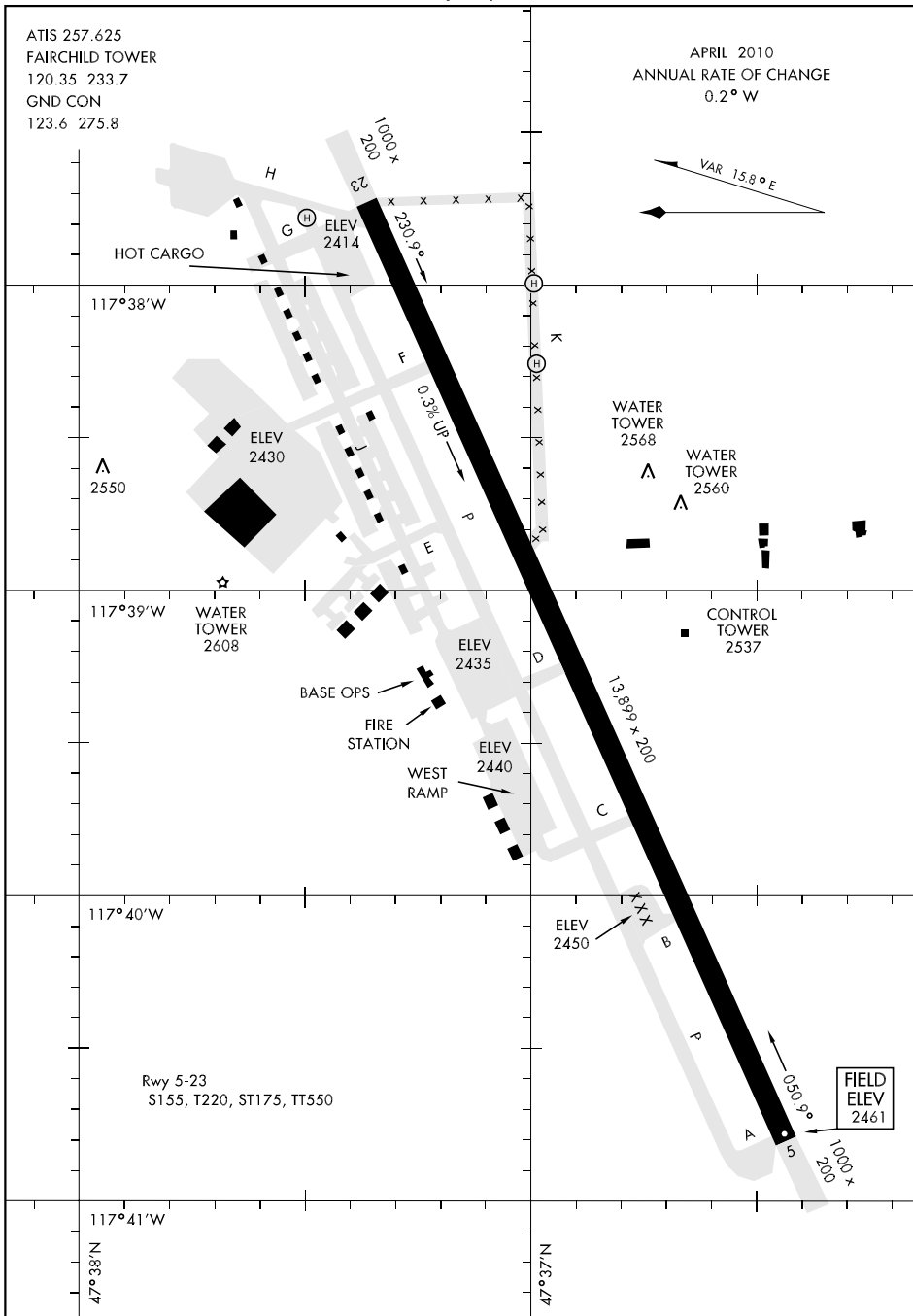
Landing Spokane Intl or Felts Field: Proceed to GEG VORTAC via GEG R-232, maintain last assigned altitude to GEG.

Landing Fairchild AFB: Proceed to KNOCK DME via direct, maintain last assigned altitude to KNOCK.

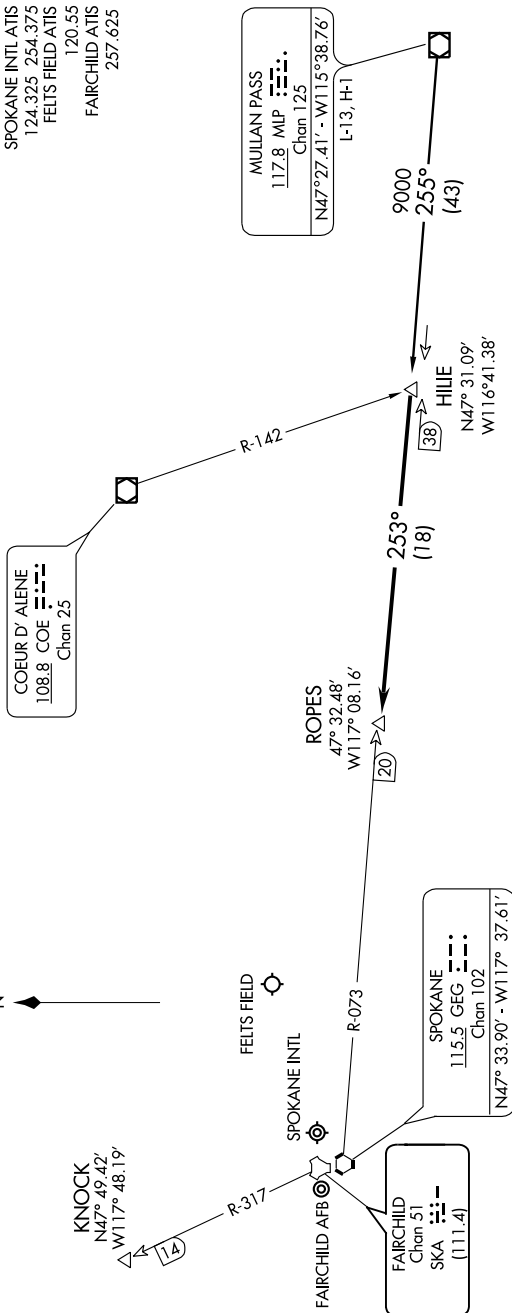
ATIS 257.625
FAIRCHILD TOWER
120.35 233.7
GND CON
123.6 275.8

APRIL 2010
ANNUAL RATE OF CHANGE
0.2° W

NW-1, 08 APR 2010 to 06 MAY 2010



SPOKANE APP CON
133.35 263.0
SPOKANE INIT ATIS
124.325 254.375
FELTS FIELD ATIS
120.55
FAIRCHILD ATIS
257.625



NOTE: DME and RADAR required.
NOTE: Chart not to scale.

MULLAN PASS TRANSITION (MLP.HILIE1): From over MLP VOR/DME via MLP R-255 to HILIE INT. Thence. . . .

. . . . From over HILIE INT via GEG R-073 to ROPES INT. Expect radar vectors to final approach course.

LOST COMMUNICATIONS: After ROPES INT:

Landing Spokane Intl or Felts Field: Proceed to GEG VORTAC via GEG R-073, maintain last assigned altitude to GEG.

Landing Fairchild AFB: Proceed to KNOCK DME via direct, maintain last assigned altitude to KNOCK.

AL-553 [USAF]

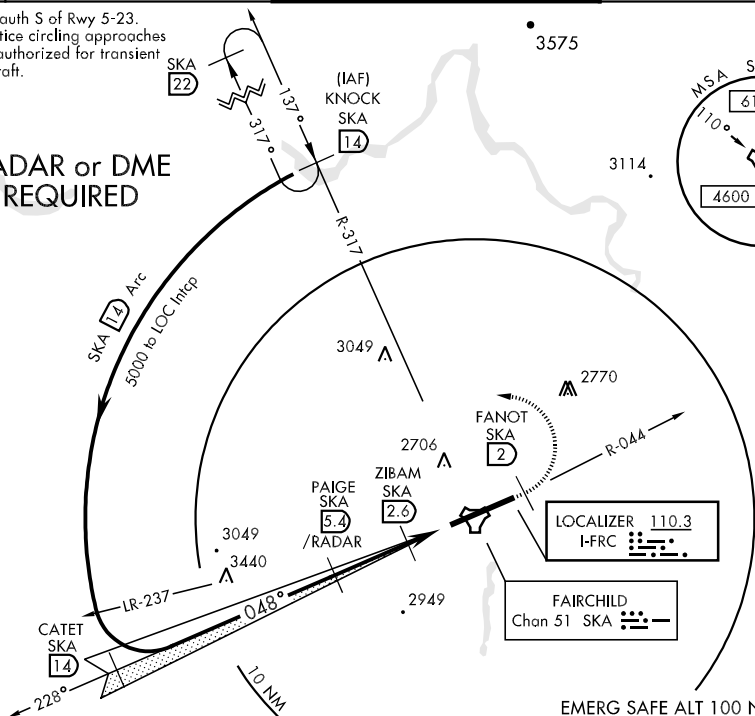
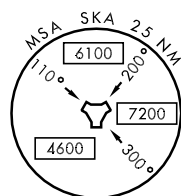
ALSF-1

MISSED APPROACH: Climb to 6000 via SKA R-044. At SKA 2 DME turn left hdg 280° to intcp SKA R-317 to KNOCK and hold, continue climb in hold to 6000.

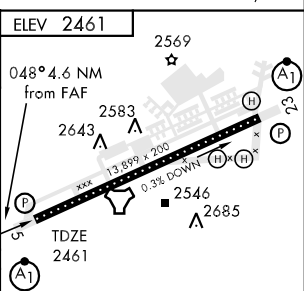
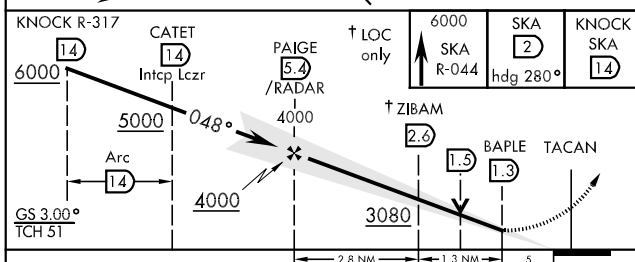
FAIRCHILD TOWER
120.35 233.7

GND CON
123 6 275 8

***Not auth S of Rwy 5-23.
Practice circling approaches
not authorized for transient
aircraft



EMERG SAFE ALT 100 NM 10,900



CATEGORY	A	B	C	D	E
S-ILS 5 *	2661/18 200 (200-½)				2661/24 200 (200-½)
S-LOC/ ** DME 5	2740/24	279 (300-½)	2740/40	279 (300-¾)	
S-LOC 5 ***	2880/24	419 (500-½)	2880/40	419 (500-¾)	2880/50 419 (500-1)
CIRCLING ****	3480-1¼ 1019 (1100-1¼)	3480-1½ 1019 (1100-1½)	3480-3 1019 (1100-3)		

HIRL Rwy 5-23					
TDZL/CL Rwy 5-23					
FAF to MAP 4.1 NM					
Knots	60	90	120	150	180
Min:Sec	4:06	2:44	2:03	1:38	1:22

LOC I-SKA 110.3	APCH CRS 228°	Rwy Idg 13,899 TDZE 2422 Arpt Elev 2461
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AL-553 [USAF]

FAIRCHILD AFB (KSKA)

▼ * When ALS inop, increase vis to $\frac{3}{4}$ mile, RVR to 40.
When TDZL/CL lights inop, increase CAT ABCD RVR to 24.
** When ALS inop, increase vis to 1 mile, RVR to 50.

ALSF-1
A1

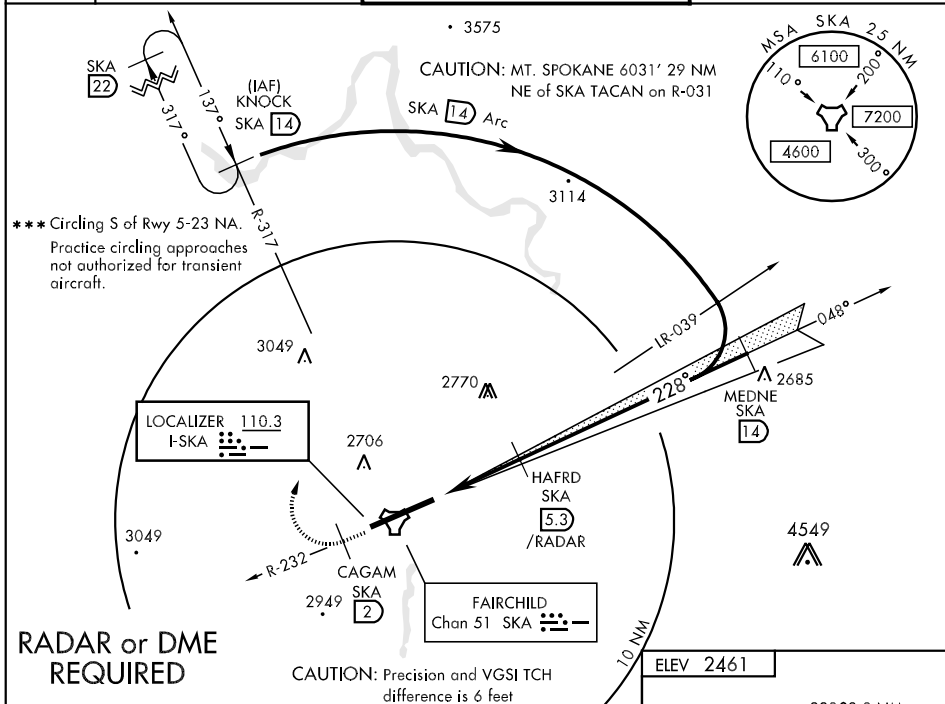
MISSED APPROACH: Climb to 6500 via SKA R-232. At SKA 2 DME, turn right heading 340° to intcp SKA R-317 to KNOCK and hold, continue climb in hold to 6500.

ATIS 257.625	SPOKANE APP CON 026°-204° 133.35 263.0 205°-025° 123.75 282.25
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FAIRCHILD TOWER

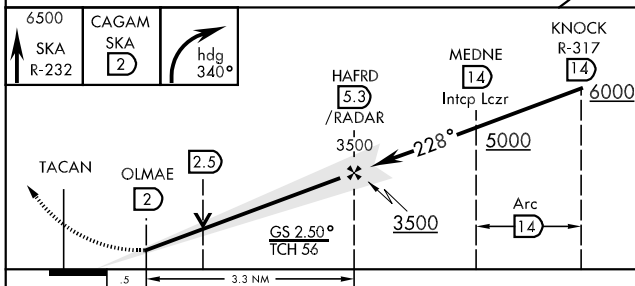
120.35 233.7

GND CON

123.6 275.8

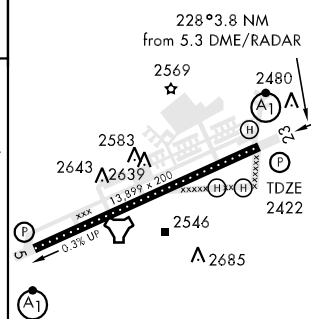
**RADAR or DME
REQUIRED**

EMERG SAFE ALT 100 NM 10,900



CATEGORY	A	B	C	D	E
S-ILS 23 *	2622/18 200 (200- $\frac{1}{2}$)				2622/24 200(200- $\frac{1}{2}$)
S-LOC 23 **	2720/24 298 (300- $\frac{1}{2}$)	2720/40 298 (300- $\frac{3}{4}$)			
CIRCLING ***	3480-1 $\frac{1}{4}$ 1019 (1100-1 $\frac{1}{4}$)	3480-1 $\frac{1}{2}$ 1019 (1100-1 $\frac{1}{2}$)	3480-3 1019 (1100-3)		

ELEV 2461



HIRL Rwy 5-23
TDZL/CL Rwy 5-23

FAF to MAP 3.3 NM

Knots	60	90	120	150	180
Min:Sec	3:18	2:12	1:39	1:19	1:06

TACAN SKA Chan 51	APCH CRS 057°	Rwy Idg 13,899 TDZE 2461 Arpt Elev 2461
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AL-553 [USAF]

FAIRCHILD AFB (KSKA)

▼ * When ALS inop, CAT ABC vis to 1 mile, RVR to 50,
CAT DE vis to 1¼ miles, RVR to 60.



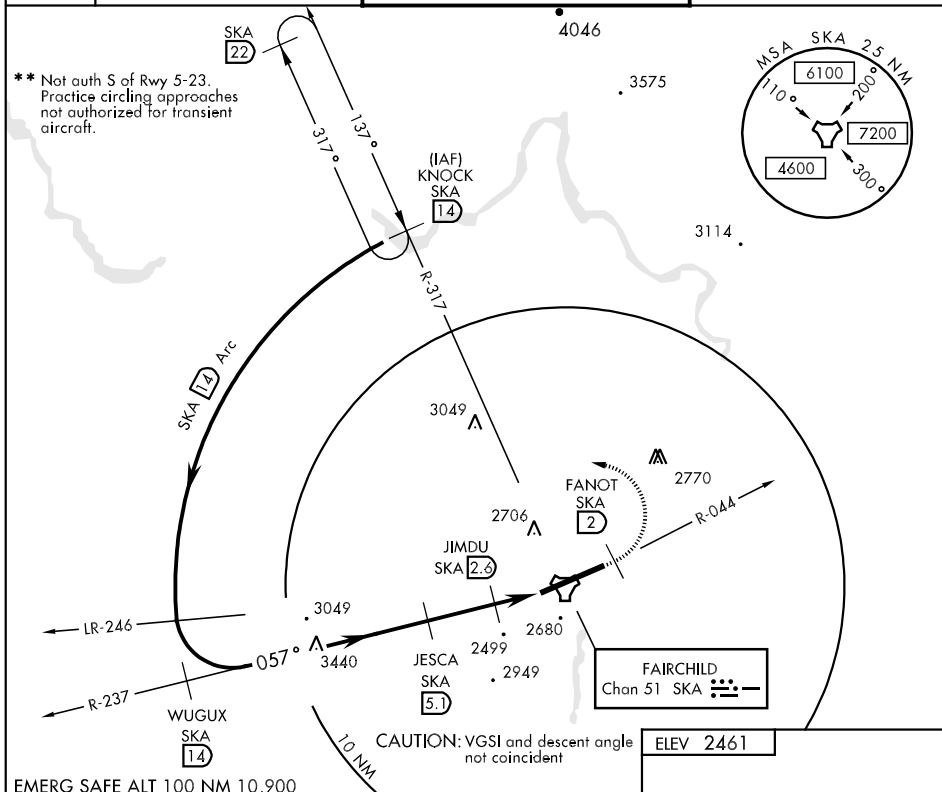
MISSED APPROACH: Climb to 6000 via SKA R-044.
At SKA 2 DME turn left hdg 280° to intcp SKA R-317
to KNOCK and hold, continue climb in hold to 6000.

ATIS 257.625	SPOKANE APP CON 026°-204° 133.35 263.0 205°-025° 123.75 282.25
------------------------	--

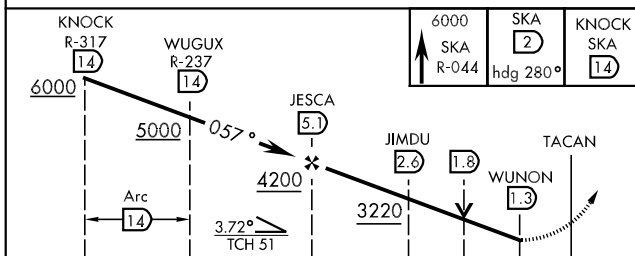
FAIRCHILD TOWER
120.35 233.7

GND CON
123.6 275.8

** Not auth S of Rwy 5-23.
Practice circling approaches
not authorized for transient
aircraft.



EMERG SAFE ALT 100 NM 10,900

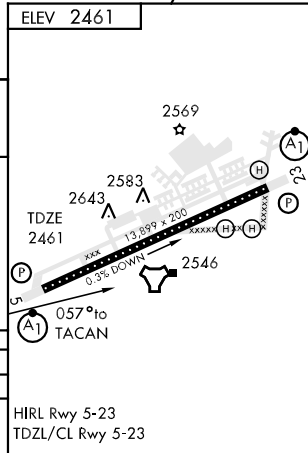


CATEGORY	A	B	C	D	E
S-5 *	2820/24	359 (400-½)	2820/40	359 (400-¾)	
CIRCLING **	3480-1¼ 1019 (1100-1¼)	3480-1½ 1019 (1100-1½)	3480-3	1019 (1100-3)	

SPOKANE, WASHINGTON

Amdt 1 10098

47°37'N-117°39'W



HIRL Rwy 5-23
TDZL/CL Rwy 5-23

FAIRCHILD AFB (KSKA)

TACAN RWY 5

TACAN SKA Chan 51	APCH CRS 226°	Rwy Idg 13,899 TDZE 2422 Arpt Elev 2461
----------------------	------------------	---

AL-553 [USAF]

FAIRCHILD AFB (KSKA)

✦ * When ALS inop, increase CAT AB vis to 1 mile, RVR to 50, CAT CD vis to 1¼ mile, RVR to 60, CAT E vis to 1½ miles.

ALSF-1

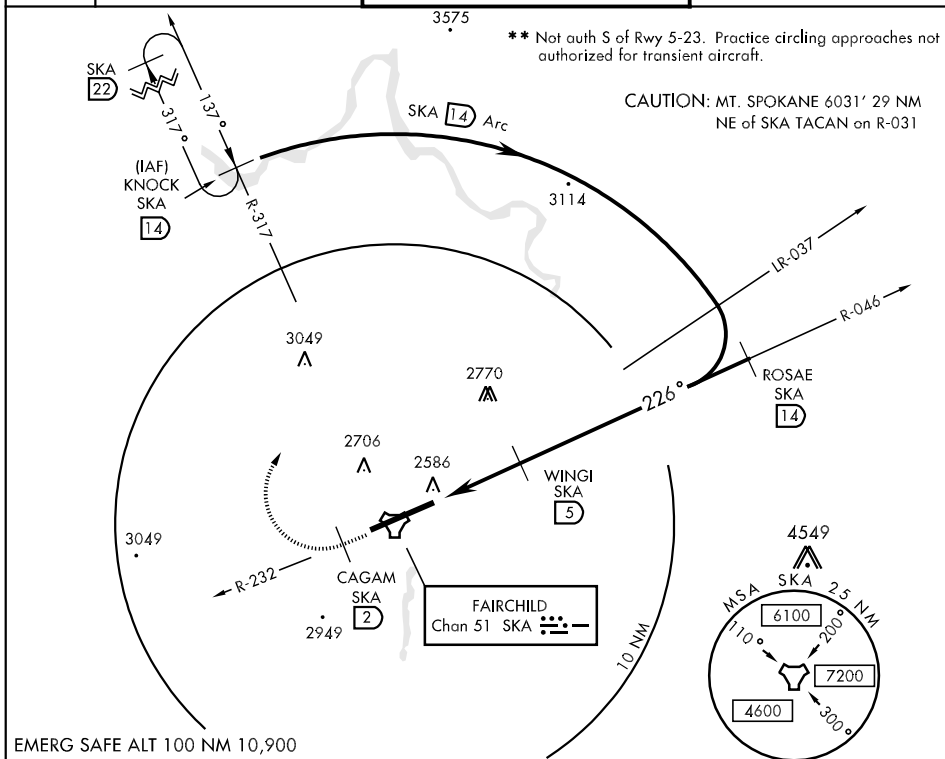


MISSED APPROACH: Climb to 6500 via SKA R-232. At SKA 2 DME, turn right heading 340° to intcp SKA R-317 to KNOCK and hold, continue climb in hold to 6500.

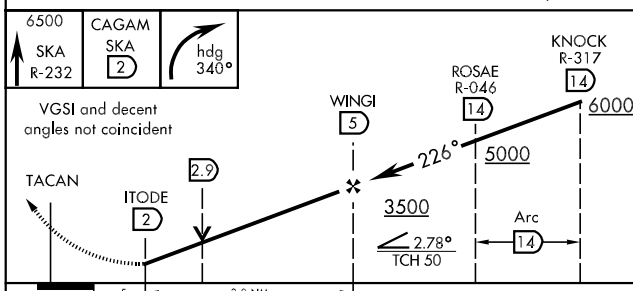
ATIS 257.625	SPOKANE APP CON 026°-204° 133.35 263.0 205°-025° 123.75 282.25
-----------------	--

FAIRCHILD TOWER
120.35 233.7

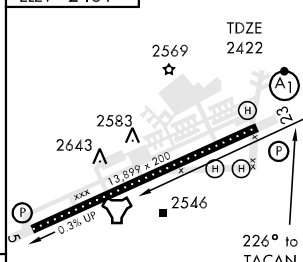
GND CON
123.6 275.8



EMERG SAFE ALT 100 NM 10,900



ELEV 2461

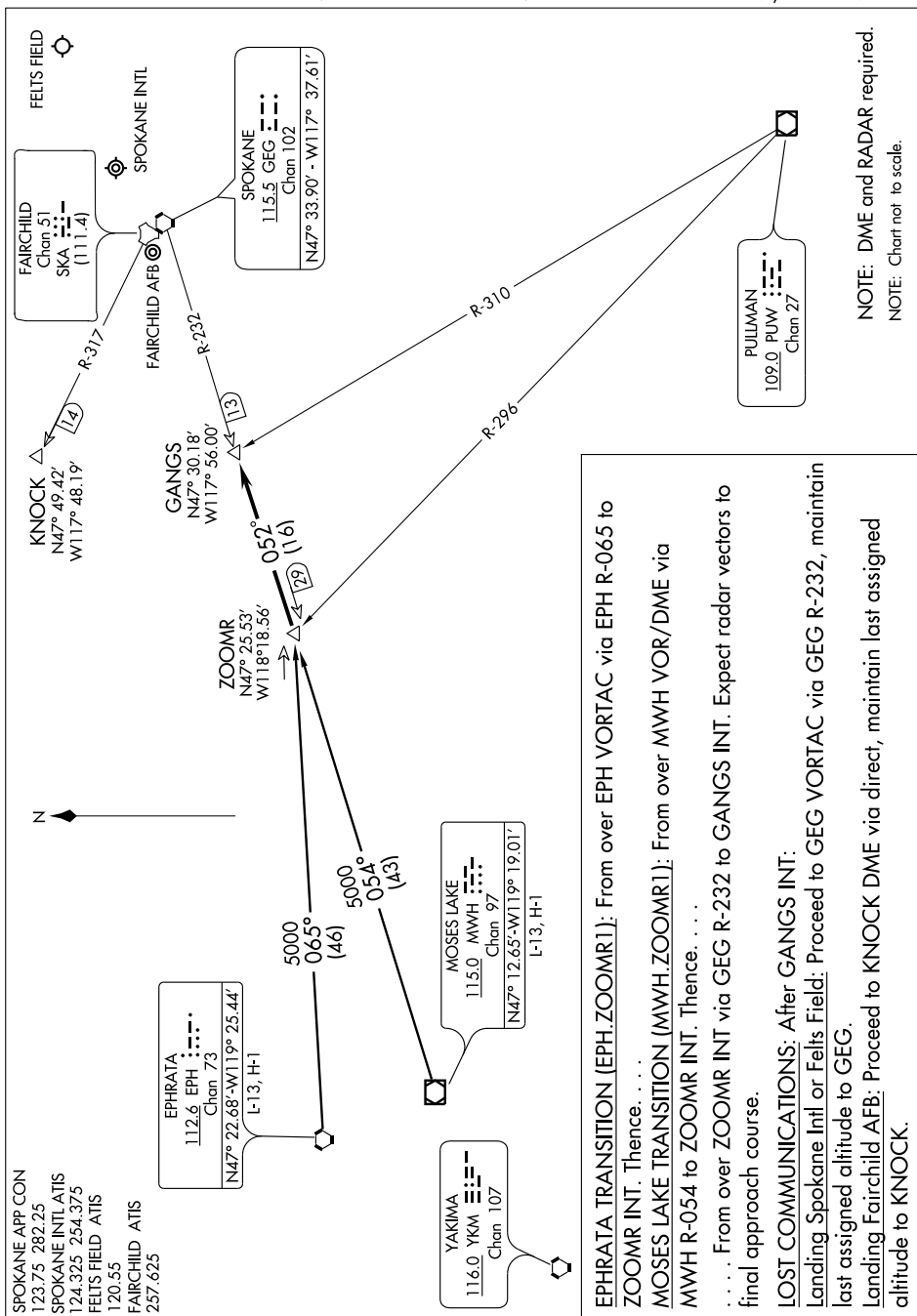


CATEGORY	A	B	C	D	E
S-TAC 23 *	2840/24 418 (400-½)		2840/40 418 (400-¾)		2840/50 418 (400-1)
CIRCLING **	3480-1¼ 1019 (1100-1¼)	3480-1½ 1019 (1100-1½)	3480-3 1019 (1100-3)		

HIRL Rwy 5-23
TDZL/CL Rwy 5-23

ZOOMR ONE ARRIVAL (ZOOMR.ZOOMR1)

SPOKANE, WASHINGTON



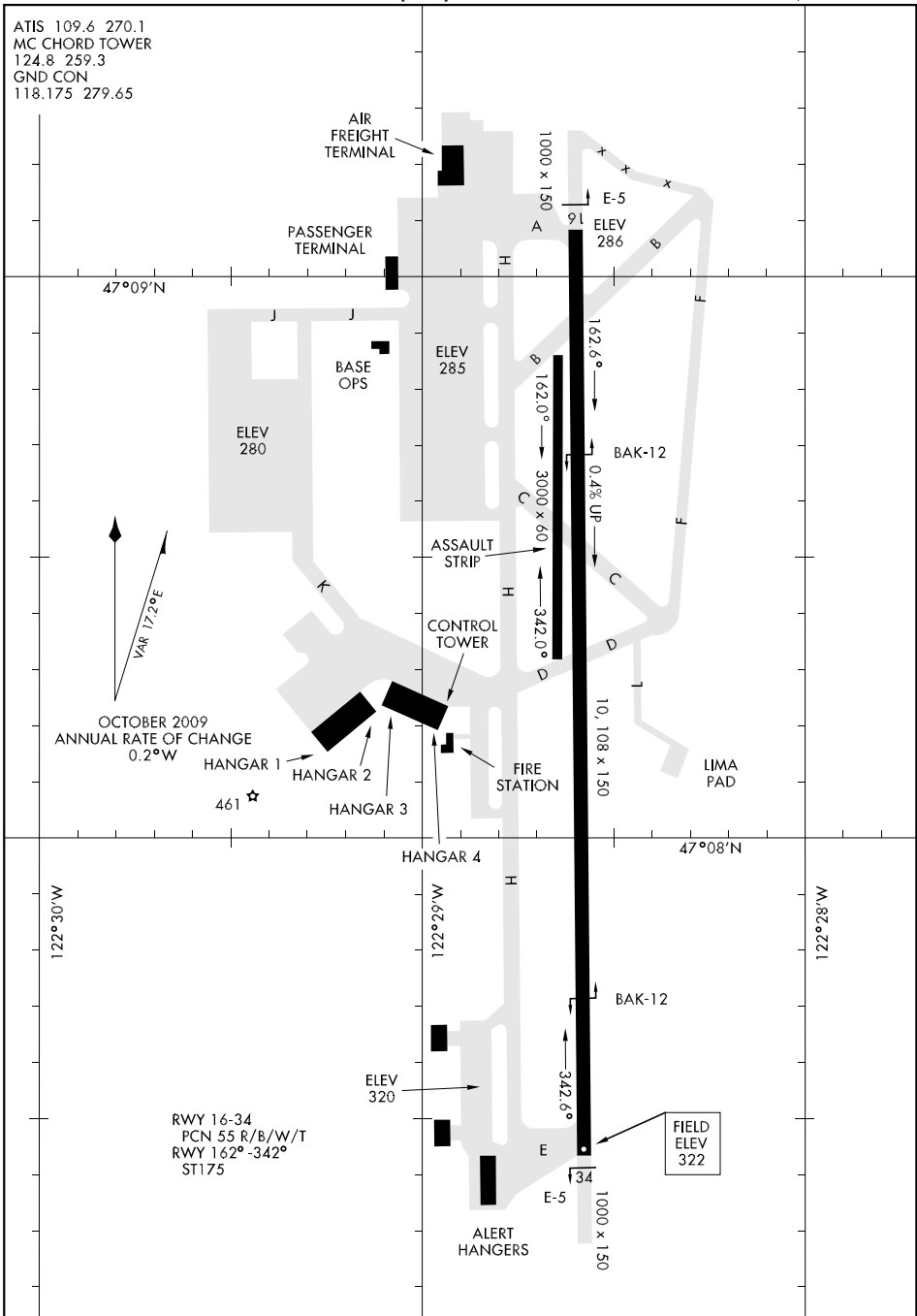
AIRPORT DIAGRAM

[USAF] AFD-414

TACOMA, WASHINGTON

ATIS 109.6 270.1
MC CHORD TOWER
124.8 259.3
GND CON
118.175 279.65

NW-1, 08 APR 2010 to 06 MAY 2010



AIRPORT DIAGRAM

TACOMA, WASHINGTON

ALDER-NINE DEPARTURE (ALDER9 • ALDER)

TACOMA, WASHINGTON

ATIS
109.6 270.1
GND CON
118.175 279.65
MC CHORD TOWER
124.8 259.3
SEATTLE DEP CON
126.5 377.15

SL-414 [USAF]

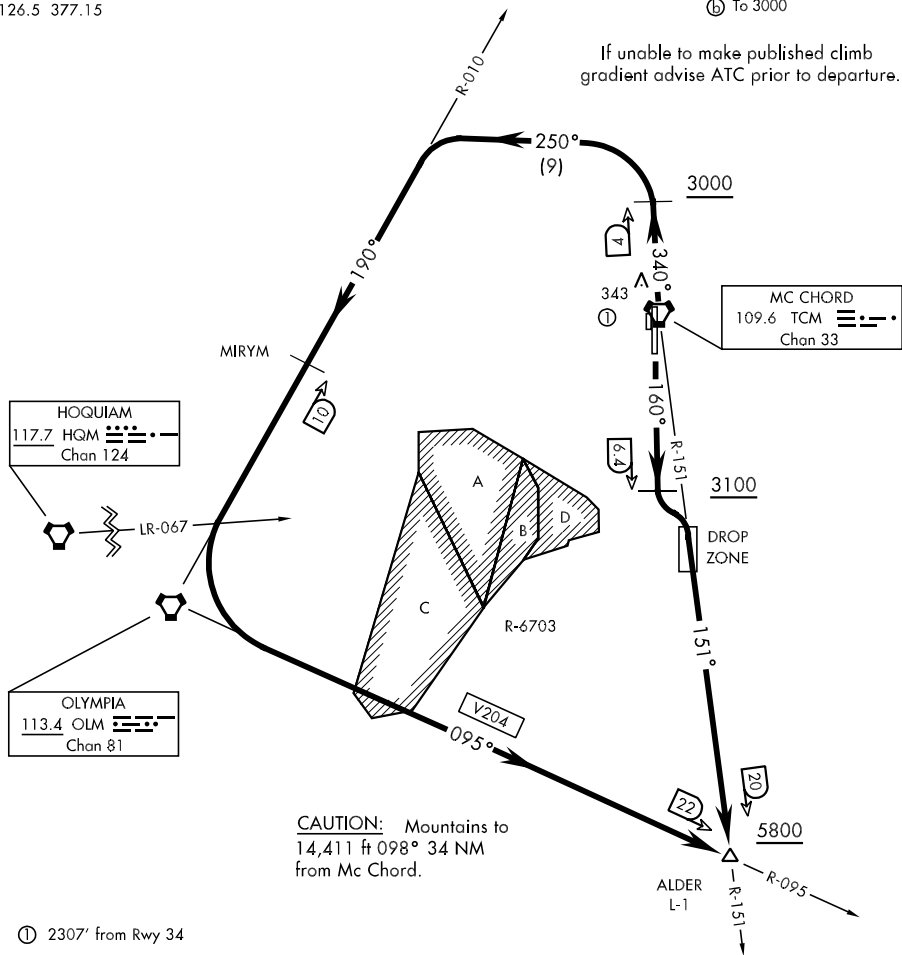
Rwy	Knots	60	120	180	240
16 (A) V/V(fpm)		560	1120	1680	2240
34 (B) V/V(fpm)		730	1450	2180	2890

ATC Climb Rate

(A) To 3100

(B) To 3000

If unable to make published climb gradient advise ATC prior to departure.



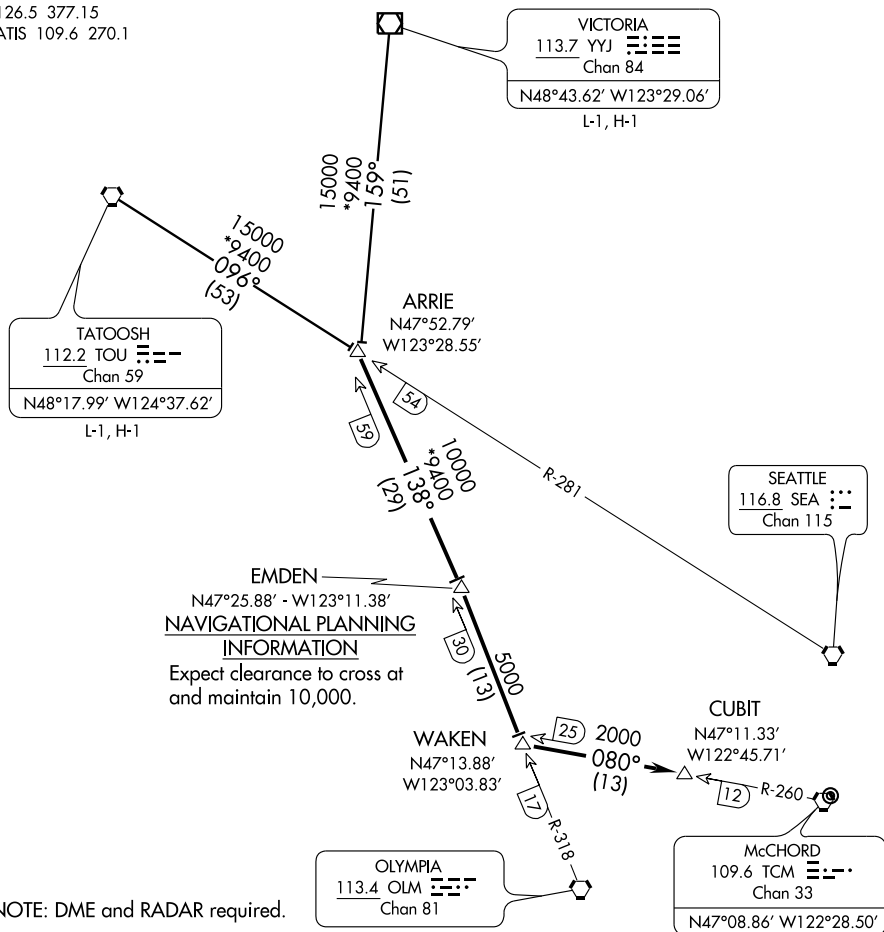
DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 16: Track heading 160° to TCM VORTAC 6.4 DME, then turn left to intercept the TCM R-151 to ALDER. Cross TCM 6.4 DME at or above 3100, cross ALDER at or above 5800.

TAKE-OFF RWY 34: Climb on track 340° to TCM VORTAC 4 DME. Cross TCM 4 DME at or above 3000, then turn left heading 250° to intercept OLM VORTAC R-010/10 DME (MIRYM) to OLM VORTAC. Then via V204 (OLM R-095) to ALDER. Cross ALDER at or above 5800.

ARRIE FIVE ARRIVAL

ST-414 (FAA)

McCHORD AFB
TACOMA, WASHINGTONSEATTLE APP CON
126.5 377.15
ATIS 109.6 270.1

NW-1, 08 APR 2010 to 06 MAY 2010

TATOOSH TRANSITION (TOU.ARRIE5): From over TOU VORTAC via TOU R-096 to ARRIE DME Fix. Thence. . .

VICTORIA TRANSITION (YYJ.ARRIE5): From over YYJ VOR/DME via YYJ R-159 to ARRIE DME Fix. Thence. . .

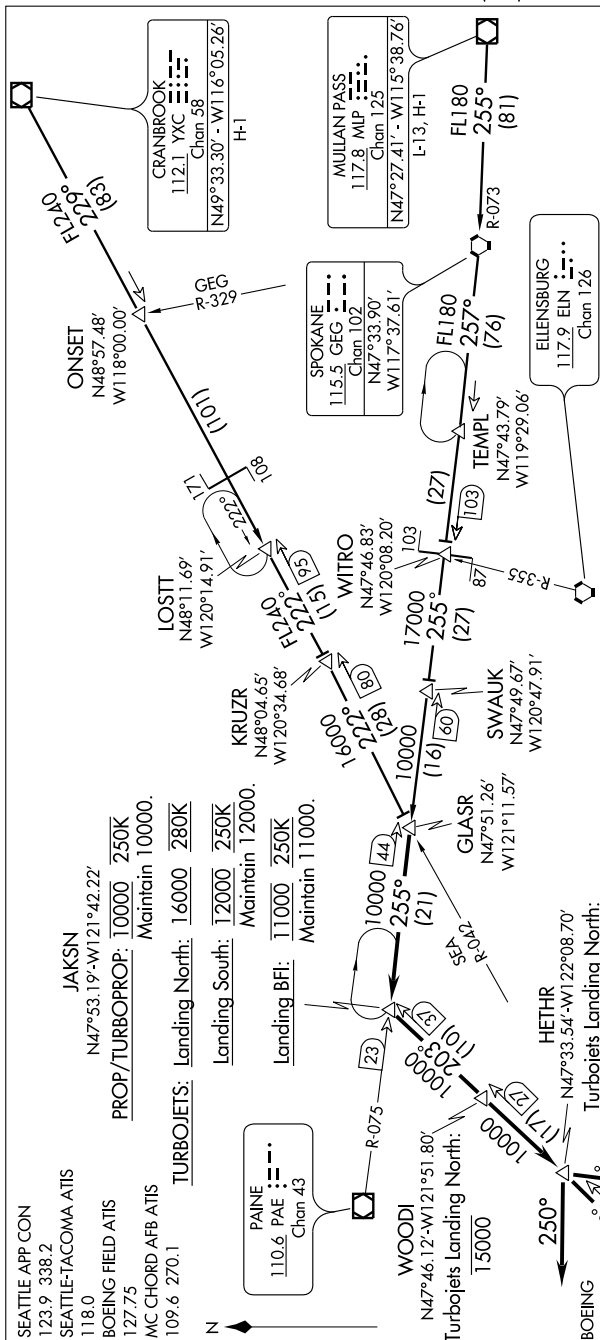
. . . From over ARRIE DME Fix via OLM R-318 and TCM R-260 to CUBIT DME fix. Expect radar vectors to final approach course.

LOST COMMUNICATIONS: Proceed direct to TCM VORTAC.

GLASR SEVEN ARRIVAL

ST-582 (FAA)

SEATTLE, WASHINGTON



CRANBROOK TRANSITION (YXC.GLASR7): From over YXC VOR/DME via YXC R-229 and SEA R-042 to GLASR INT. Thence....

MULLAN PASS TRANSITION (MLP.GLASR7): From over MLP VOR/DME via MLP R-255 and GEG R-073 to GEG VORTAC, then via GEG R-257 and PAE R-075 to GLASR INT. Thence....

....from over GLASR/PAE 44 DME via PAE R-075 to JAKSN INT/PAE 23 DME, then via the SEA R-023 to WOODI/SEA 27 DME, then via SEA R-023 to HETHR/SEA 10 DME, Thence....

LANDING NORTH: Heading 160° for vectors to final approach course.

LANDING SOUTH: Heading 250° for vectors to final approach course.

LANDING McCHORD AFB: From over HETHR DME FIX, proceed direct SEA VORTAC.

LOST COMMUNICATIONS: From over HETHR DME FIX, proceed direct SEA VORTAC.

NOTE: Chart not to scale.

NOTE: DME and RADAR required.

LOC I-MAR 109.9	APCH CRS 160°	Rwy Idg 10,108 TDZE 286 Arpt Elev 322
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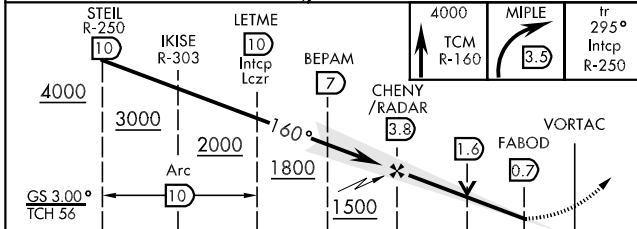
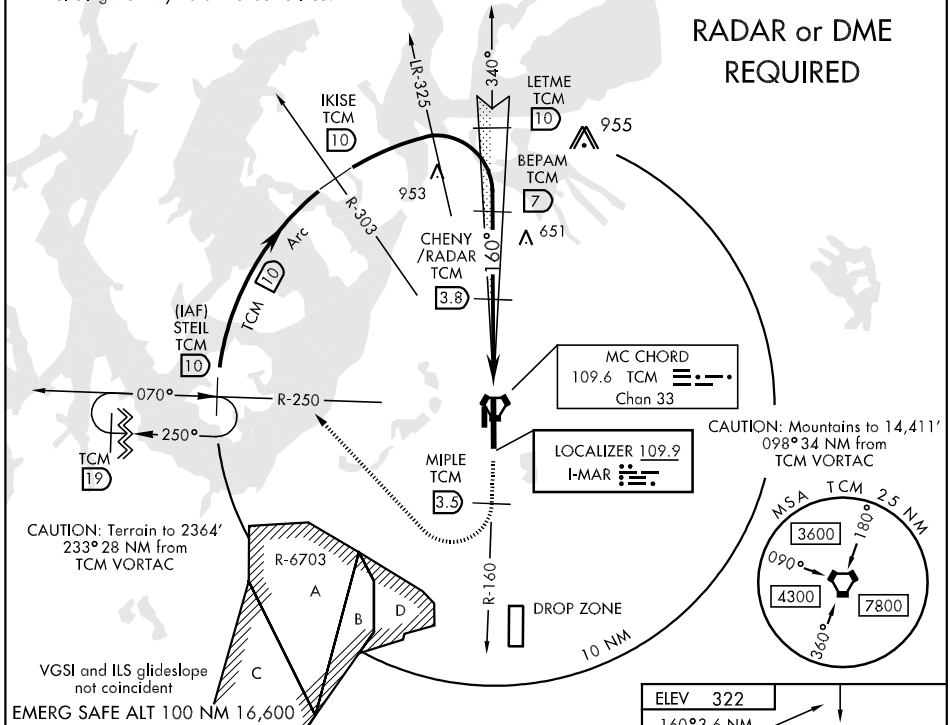
AL-414 [USAF]

MC CHORD AFB (KTCM)

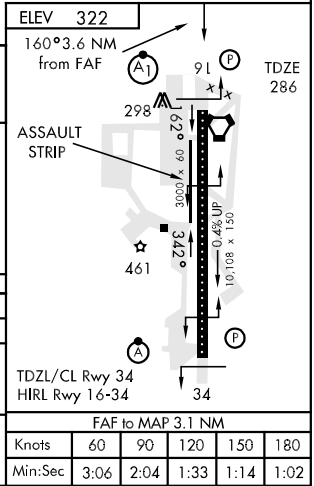
▼ ** When ALS inop, increase vis to $\frac{3}{4}$ mile, RVR to 40.
 ** When ALS inop, increase CAT AB RVR to 50, vis to 1 mile, CAT C vis to $1\frac{1}{2}$ miles, CAT DE vis to $1\frac{3}{4}$ miles.

ATIS 109.6 270.1	SEATTLE APP CON 126.5 377.15	MC CHORD TOWER 124.8 259.3	GND CON 118.175 279.65
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*** Circling E of Rwy 16-34 not authorized.



CATEGORY	A	B	C	D	E
S-ILS 16*	486/18	200 (200- $\frac{1}{2}$)	486/24	200 (200- $\frac{1}{2}$)	
S-LOC 16**	800/40	514 (500- $\frac{3}{4}$)	800/50 514 (500-1)	800/60	514 (500- $\frac{1}{4}$)
CIRCLING***	940-1	618 (700-1)	940-1 $\frac{3}{4}$ 618 (700-1 $\frac{3}{4}$)	940-2 618 (700-2)	940-2 $\frac{1}{4}$ 618 (700-2 $\frac{1}{4}$)



LOC I-TCM 108.5	APCH CRS 340°	Rwy Idg 10,108 TDZE 322 Arpt Elev 322
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AL-414 [USAF]

MC CHORD AFB (KTCM)

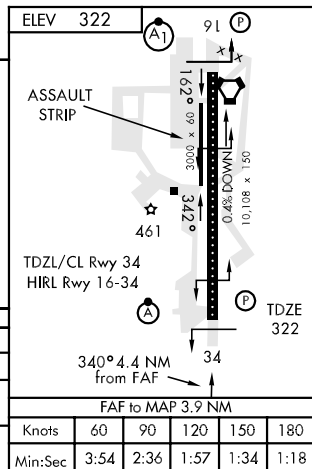
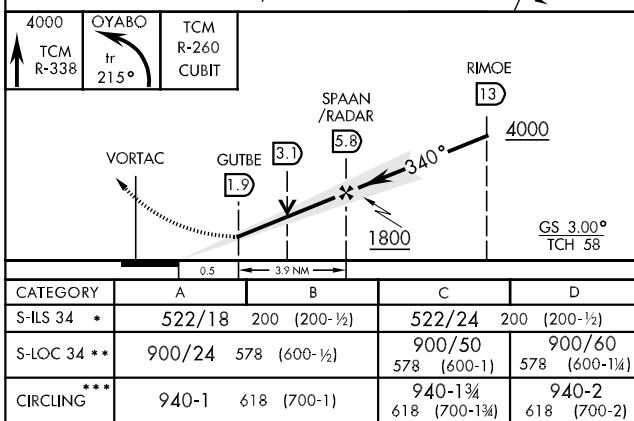
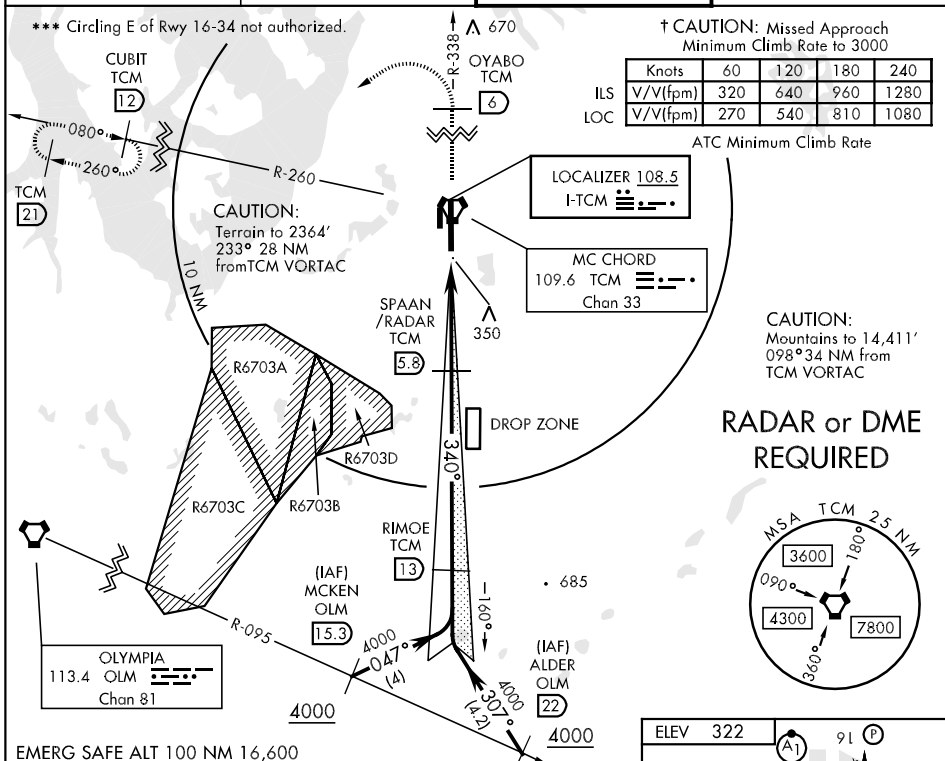
▼ * When ALS inop, increase vis $\frac{3}{4}$ mile, RVR to 40.
 ** When ALS inop, increase CAT AB vis to 1 mile,
 RVR to 50, CAT C vis to $1\frac{1}{2}$ miles, CAT D vis to
 $1\frac{3}{4}$ miles.

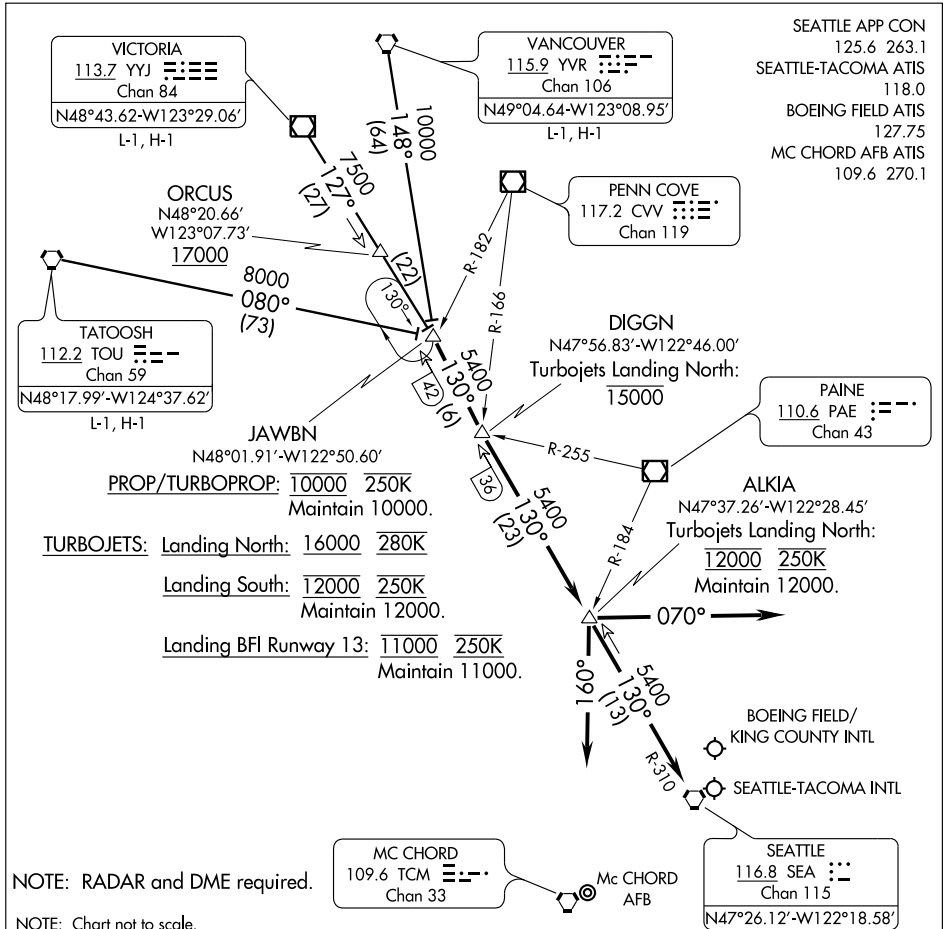
ALSF-2



† MISSED APPROACH: Climb to 4000 on TCM VORTAC
 R-338 to OYABO, then turn left via 215° course to
 intercept TCM R-260 to CUBIT and hold, continue climb
 in hold to 4000. Cross OYABO at or above 3000.

ATIS 109.6 270.1	SEATTLE APP CON 126.5 377.15	MC CHORD TOWER 124.8 259.3	GND CON 118.175 279.65
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TATOOSH TRANSITION (TOU.JAWBN1): From over TOU VORTAC via TOU R-080 to JAWBN INT. Thence....

VANCOUVER TRANSITION (YVR.JAWBN1): From over YVR VORTAC via YVR R-148 to JAWBN INT. Thence....

VICTORIA TRANSITION (YYJ.JAWBN1): From over YYJ VOR/DME via YYJ R-127 to JAWBN INT. Thence....

....From over JAWBN INT/SEA 42 DME via SEA R-310 to DIGGN/SEA 36 DME then via SEA R-310 to ALKIA INT/SEA 13 DME, thence....

LANDING NORTH: Depart ALKIA INT heading 160° for vectors to final approach course.

LANDING SOUTH: Depart ALKIA INT heading 070° for vectors to final approach course.

LANDING McCHORD AFB: After ALKIA INT proceed direct SEA VORTAC.

LOST COMMUNICATIONS: After ALKIA INT proceed direct SEA VORTAC.

OLYMPIC-THREE DEPARTURE

SL-414 [USAF]

TACOMA, WASHINGTON

ATIS
109.6 270.1
GND CON
118.175 279.65
MC CHORD TOWER
124.8 259.3
SEATTLE DEP CON
126.5 377.15

If unable to make published
climb gradient advise ATC
prior to departure.

Rwy	Knots	60	120	180	240
16 (A) V/V(fpm)		320	640	960	1280
34 (B) V/V(fpm)		650	1300	1950	2600

ATC Climb Rate

(A) To 10 DME

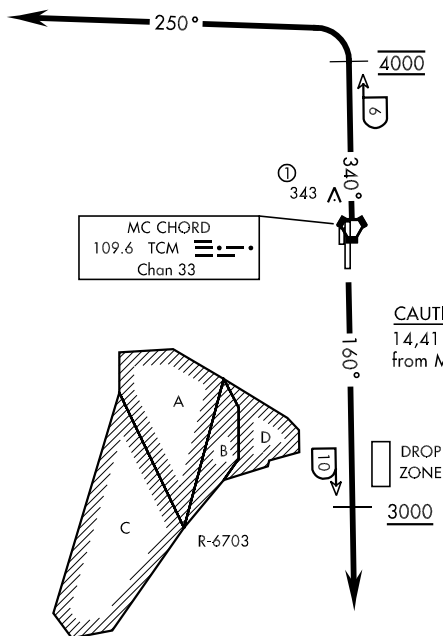
(B) To 6 DME

RADAR REQUIRED

Maximum 250 KIAS

SEATTLE
116.8 SEA
Chan 115

L-1



CAUTION: Mountains to
14,411 ft 098° 34 NM
from Mc Chord.

(1) 2270' from Rwy 34

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 16: Climb on a track of 160°. Cross TCM VORTAC 10 DME at or above 3000. Maintain (assigned altitude). Expect radar vectors within TCM 8 DME after departure.

TAKE-OFF RWY 34: Climb on a track of 340° to TCM VORTAC 6 DME. Cross TCM 6 DME at 4000. Then turn left tracking 250°. Maintain (assigned altitude). Expect radar vectors.

NW-1, 08 APR 2010 to 06 MAY 2010

PUGET-FIVE DEPARTURE

SL-414 [USAF]

MC CHORD AND (RTOM)
TACOMA, WASHINGTON

ATIS
109.6 270.1
GND CON
118.175 279.65
MC CHORD TOWER
124.8 259.3
SEATTLE DEP CON
126.5 377.15

If unable to make published
climb gradient advise ATC
prior to departure.

Rwy	Knots	60	120	180	240
16	⊙ V/V(fpm)	320	640	960	1280

ATC Climb Rate

⊙ To 10 DME

RADAR REQUIRED

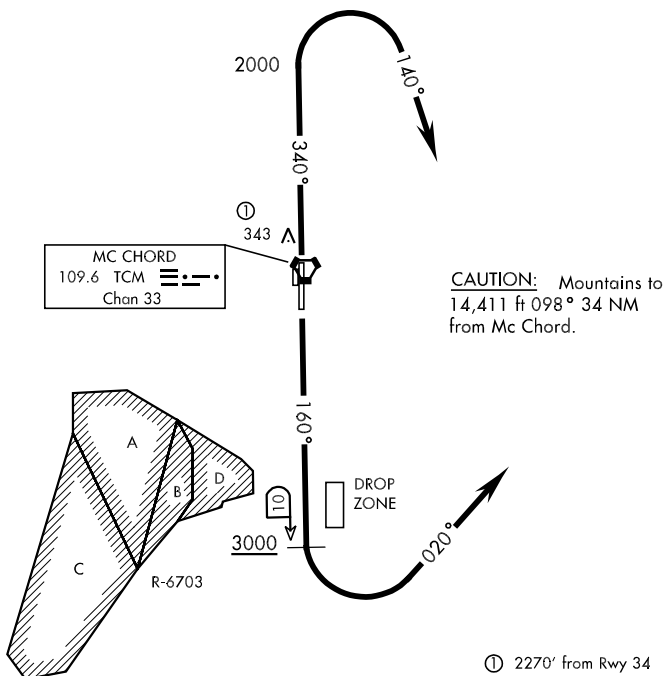
Maximum 250 KIAS

Radar vectors required within 10 NM after departure



SEATTLE
116.8 SEA
Chan 115

L-1



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 16: Climb on a track of 160° to TCM VORTAC 10 DME, then turn left tracking 020°. Cross TCM 10 DME at or above 3000. Maintain (assigned altitude). Expect radar vectors.

TAKE-OFF RWY 34: Climb on a track of 340° to 2000. Then turn right, tracking 140°. Maintain (assigned altitude). Expect radar vectors.

TACAN TCM
Chan 33

APCH CR
153°

Rwy Idg	10,108
TDZE	286
Arpt Elev	322

AL-414 [USAF]

MC CHORD AFB (KTCM)

T * When ALS inop, increase CAT AB vis to 1 mile, RVR to 50, CAT C vis to 1½ miles, CAT DE vis to 1¾ miles.

ALSF-1



MISSED APPROACH: Climb to 4000 on TCM VORTAC R-160. At TCM 3.5 DME turn right via 295° course to intercept TCM R-250 to STEIL and hold, continue climb in hold to 4000.

ATIS

109.6 270.1

SEATTLE APP CON

126.5 377.15

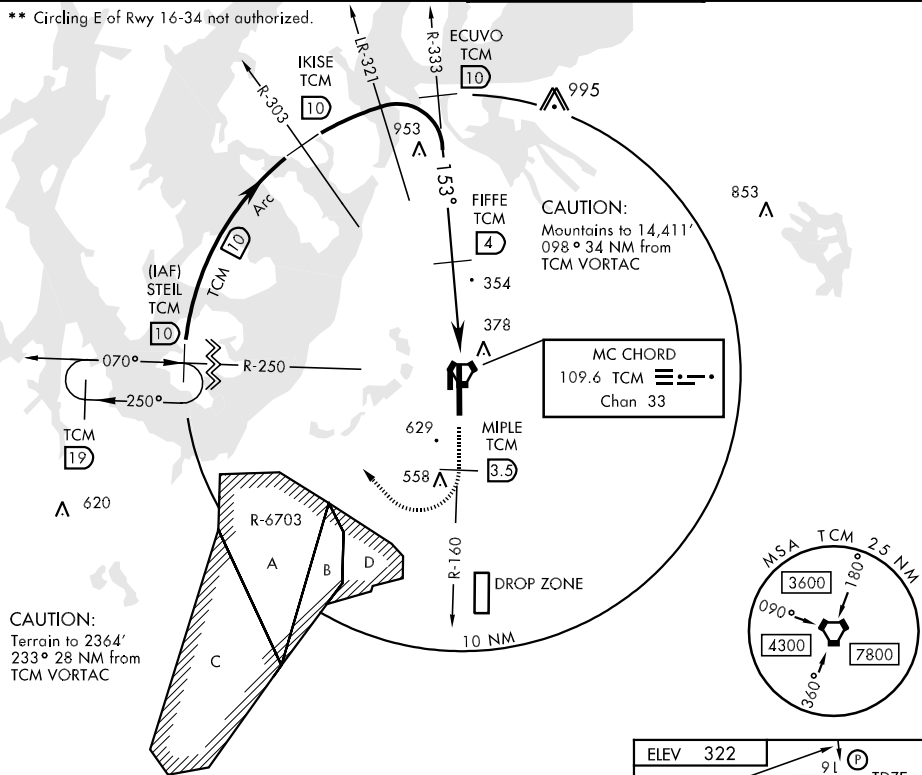
MC CHORD TOWER

124.8 259.3

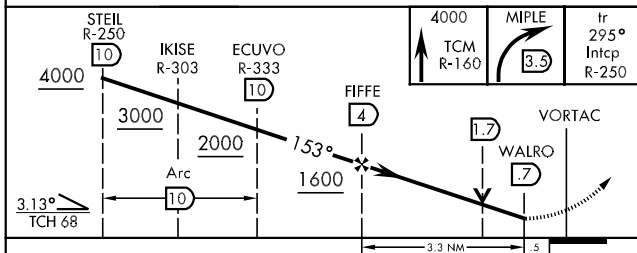
GND CON

118.175 279.65

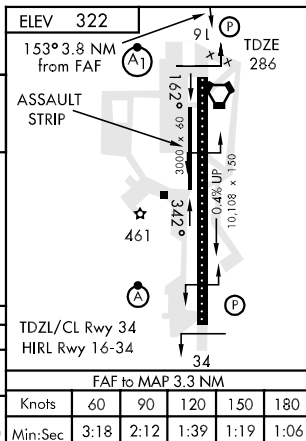
** Circling E of Rwy 16-34 not authorized.



EMERG SAFE ALT 100 NM 16,600



CATEGORY	A	B	C	D	E
S-16 *	800/40 514 (500-¾)		800/50 514 (500-1)	800/60 514 (500-1¼)	
CIRCLING **	940-1 618 (700-1)		940-1¼ 618(700-1¾)	940-2 618 (700-2)	940-2 ¼ 618(700-2 ¼)



TACOMA, WASHINGTON

47°08'N-122°29'W

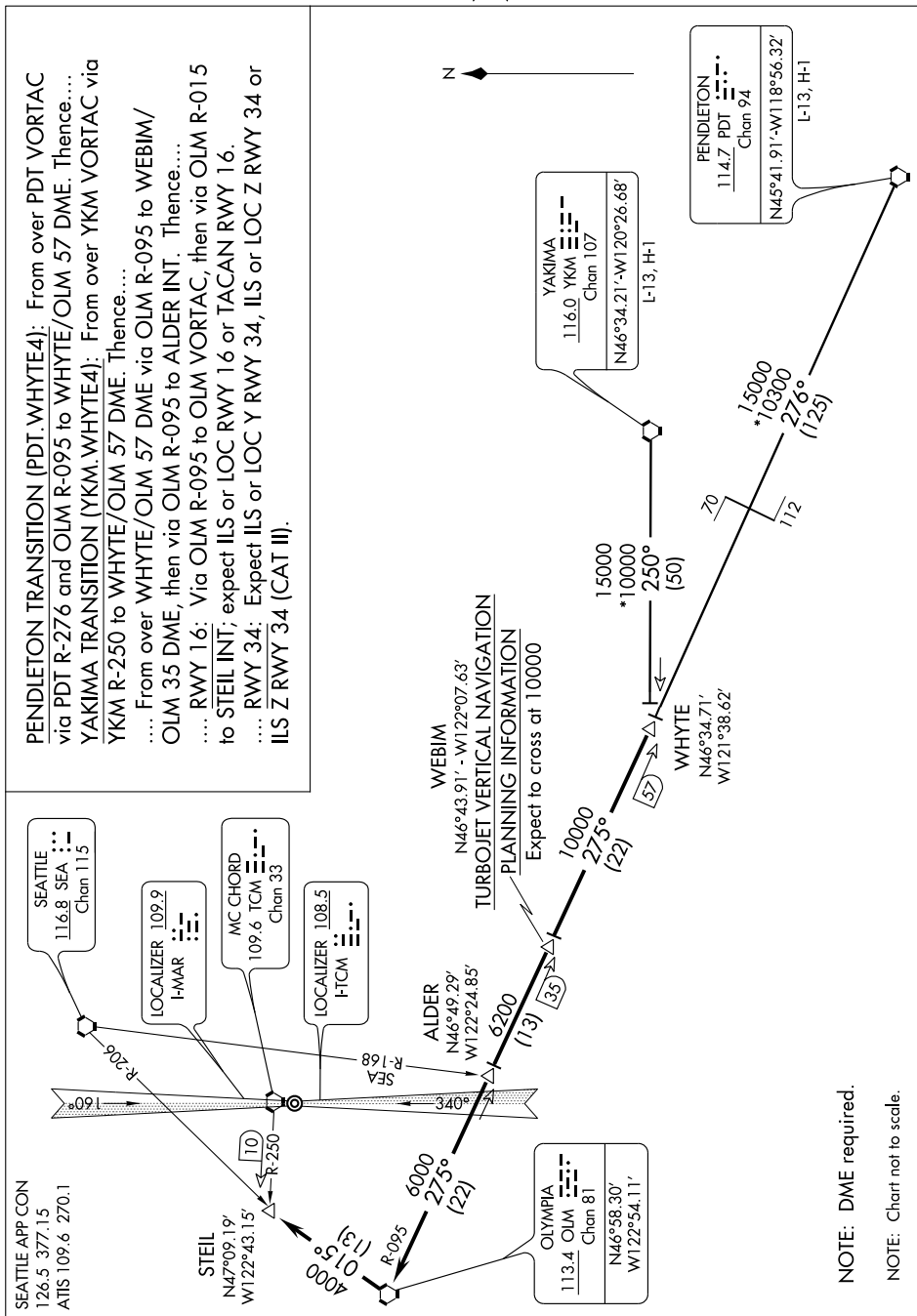
MC CHORD AFB (KTCM)

Orig 10042

NW-1, 08 APR 2010 to 06 MAY 2010

WHYTE FOUR ARRIVAL

ST-414 (FAA)

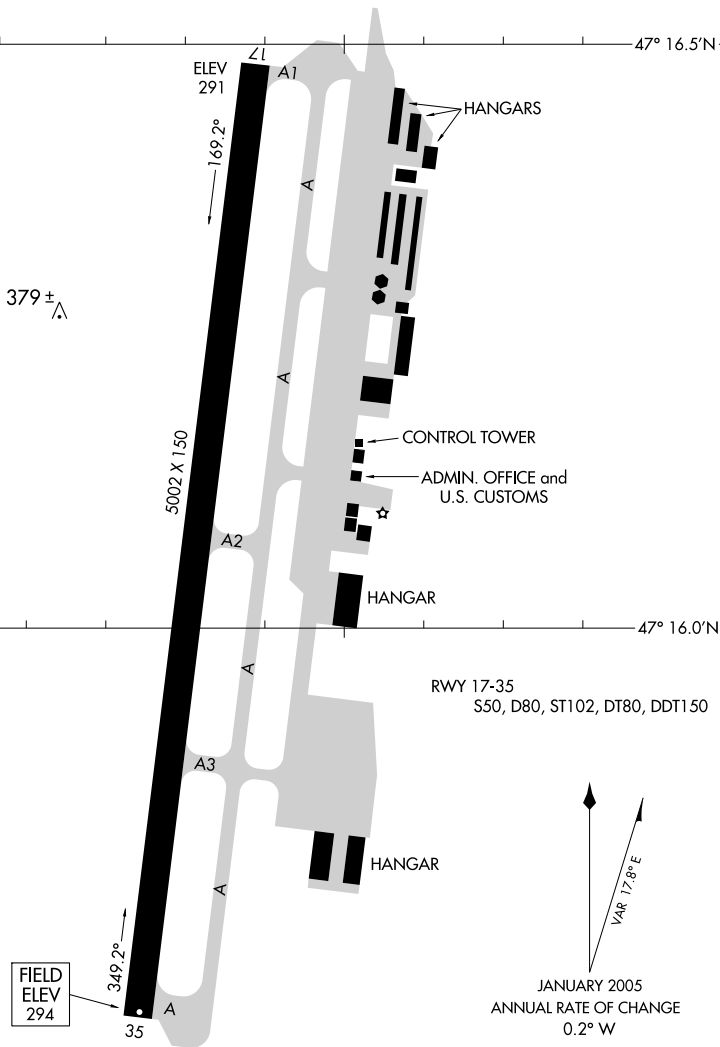
McCHORD AFB
TACOMA, WASHINGTON

AIRPORT DIAGRAM

AL-5186 (FAA)

TACOMA NARROWS (TIW)
TACOMA, WASHINGTON

ATIS 124.05
TACOMA TOWER★
118.5 253.5
GND CON
121.8



NW-1, 08 APR 2010 to 06 MAY 2010

LOC I-TIW	APP CRS	Rwy Idg	5002
109.1	167°	TDZE	292
		Apt Elev	292

⚠ When control tower closed, obtain local altimeter setting on UNICOM, when not received, use McChord AFB altimeter setting minimums.

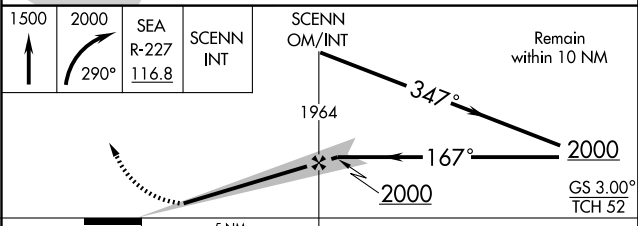
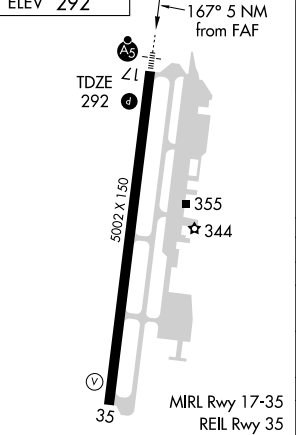
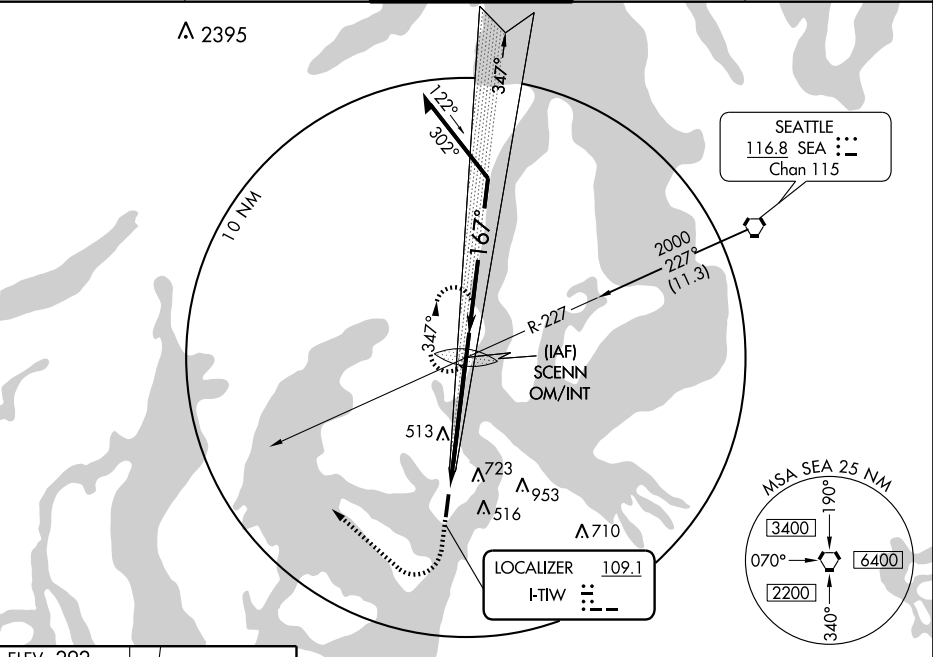
⚠ Circling not authorized East of Rwy 17-35.

MALSR

A5

MISSED APPROACH: Climb to 1500, then climbing right turn to 2000 via heading 290° and SEA VORTAC R-227 to SCENN INT and hold.

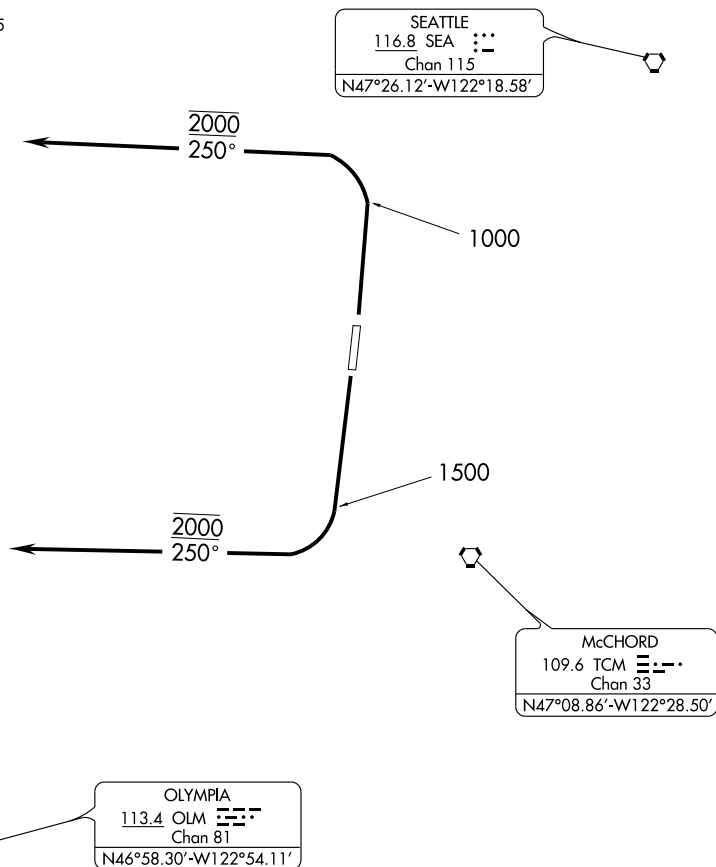
ATIS 124.05	SEATTLE APP CON 120.1 290.9	TACOMA TOWER ★ 118.5 (CTAF) 253.5	GND CON 121.8	UNICOM 122.95
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CATEGORY	A	B	C	D
S-ILS 17	492-½ 200 (200-½)			
S-LOC 17	760-½	468 (500-½)	760-¾ 468 (500-¾)	760-1 468 (500-1)
CIRCLING	760-1	468 (500-1)	760-1½ 468 (500-1½)	860-2 568 (600-2)
McCHORD AFB ALTIMETER SETTING MINIMUMS				
S-ILS 17	517-½ 225 (300-½)			
S-LOC 17	780-½	488 (500-½)	780-¾ 488 (500-¾)	780-1 488 (500-1)
CIRCLING	780-1	488 (500-1)	780-1½ 488 (500-1½)	860-2 568 (600-2)

FAF to MAP 5 NM					
Knots	60	90	120	150	180
Min:Sec	5:00	3:20	2:30	2:00	1:40

ATIS 124.05
GND CON 121.8
TACOMA TOWER
118.5 (CTAF) 253.5
SEATTLE DEP CON
120.1 290.9



NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 17: Climb runway heading until leaving 1500, turn right heading 250°, maintain 2000. Expect filed altitude 5 minutes after departure. Expect radar vectors to assigned route

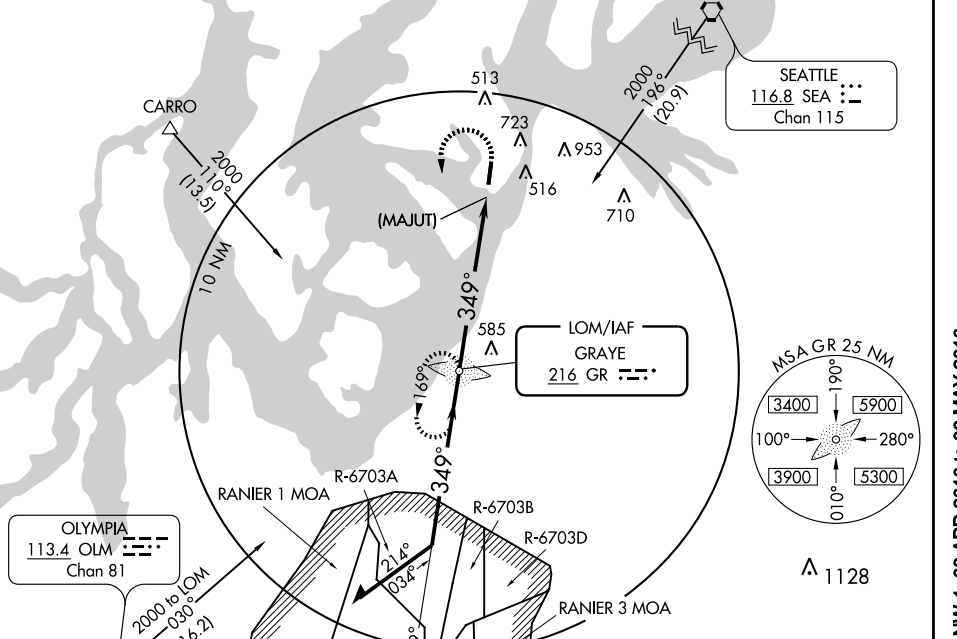
TAKE-OFF RUNWAY 35: Climb runway heading until leaving 1000, turn left heading 250°, maintain 2000. Expect filed altitude 5 minutes after departure. Expect radar vectors to assigned route.

LOST COMMUNICATIONS: If no transmissions are received for 3 minutes after departure, climb to filed altitude direct SEA VORTAC, thence via assigned route.

When control tower closed, obtain local altimeter setting on UNICOM; when not received, use McChord AFB altimeter setting. Circling not authorized East of Rwy 17-35.

MISSED APPROACH: Climb to 1000, then climbing left turn to 2000 direct GR LOM and hold.

ATIS 124.05	SEATTLE APP CON 120.1 290.9	TACOMA TOWER★ 118.5 (CTAF) 0 253.5	GND CON 121.8	UNICOM 122.95
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Remain within 10 NM

LOM

2000 169° 349° 2000

VGSI and descent angle not coincident.

(MAJUT)

6.3 NM 0.4 NM

ELEV 292	
MIRL Rwy 17-35	
REIL Rwy 35	
1000	2000
GR	216
349° 6.7 NM from FAF	
5002 X 150	
TDZE 292	
35 344	
FAF to MAP 6.3 NM	
Knots	60 90 120 150 180
Min:Sec	6:18 4:12 3:09 2:31 2:06

RNAV (GPS) RWY 17
TACOMA NARROWS (TIW)

TACOMA NARROWS (TIW)

MALSR

MISSED APPROACH: Climb to 4000 direct WAPGI and right turn via 285° track to CARRO and hold, continue climb-in-hold to 4000.

Baro-VNAV NA when using McChord AFB altimeter setting.
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 48°C (118°F).
DME/DME RNP -0.3 NA. Visibility reduction by helicopters NA.
When local altimeter setting not received, use McChord AFB altimeter setting and increase all DA/MDA 40 feet.

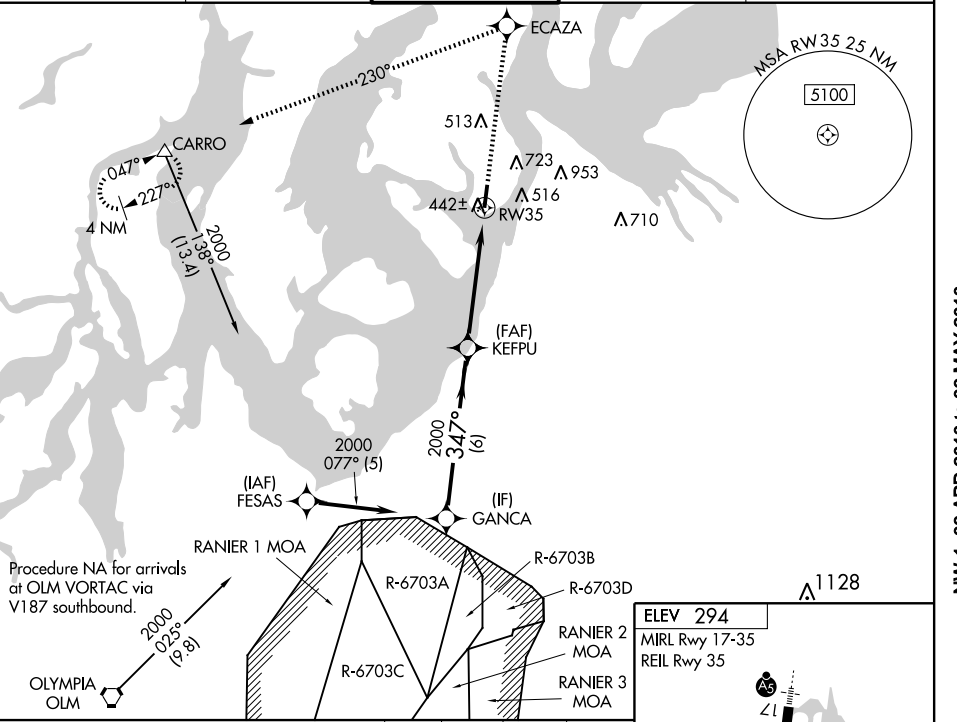
NW-1. 08 APR 2010 to 06 MAY 2010

CATEGORY	A	B	C	D
LPV DA	638-1	344 (400-1)		
LNNAV/VNAV DA	992-2	698 (700-2)		
LNNAV MDA	980-1	686 (700-1)	980-1½ 686 (700-1½)	980-1¾ 686 (700-1¾)
CIRCLING	980-1	686 (700-1)	980-2 686 (700-2)	980-2¼ 686 (700-2¼)

Baro-VNAV NA when using McChord AFB altimeter setting.
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 48°C (118°F). DME/DME RNP- 0.3 NA.
Visibility reduction by helicopters NA. Circling NA east of Rwy 17-35.
When local altimeter setting not received, use McChord AFB altimeter setting and increase all DA 25 feet and all MDA 40 feet.

MISSED APPROACH: Climb to 4000 direct ECAZA and left turn via 230° track to CARRO and hold, continue climb-in-hold to 4000.

ATIS 124.05	SEATTLE APP CON 120.1 290.9	TACOMA TOWER ★ 118.5 (CTAF) 0 253.5	GND CON 121.8	UNICOM 122.95
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Procedure Turn NA

GS 3.00° TCH 51

2000

347°

2000

6 NM

5.1 NM

4000

ECAZA

230°

CARRO

RW35

CATEGORY	A	B	C	D
LPV DA	560-1 266 (300-1)			
LNAV/VNAV DA	768-1¾ 474 (500-1¾)			
LNAV MDA	840-1 546 (600-1)		840-1½ 546 (600-1½)	840-1¾ 546 (600-1¾)
CIRCLING	980-1 686 (700-1)		980-2 686 (700-2)	980-2¼ 686 (700-2¼)

ELEV 294

MIRL Rwy 17-35

REIL Rwy 35

35

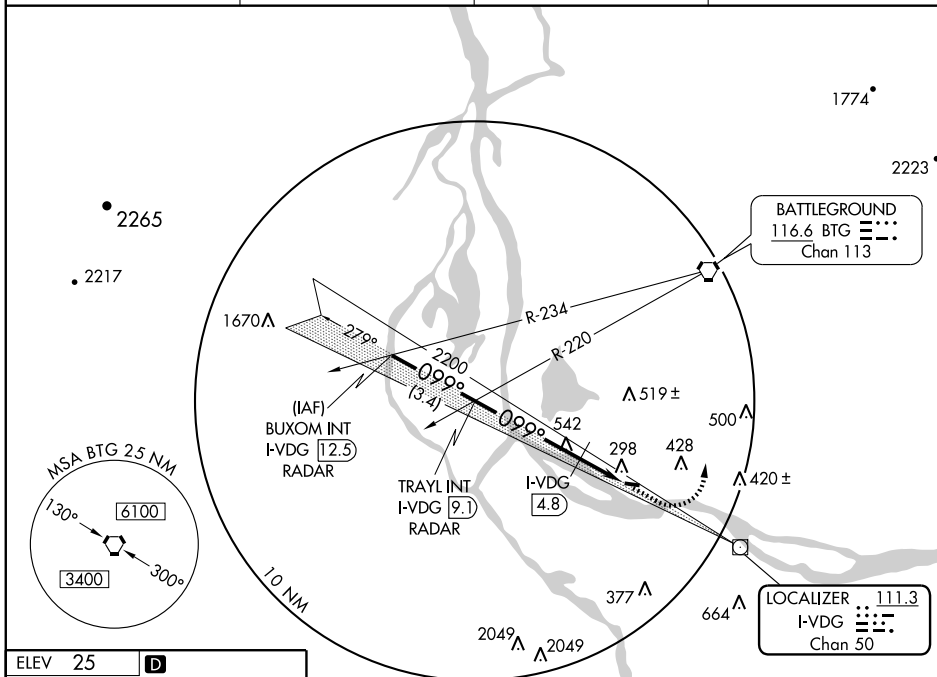
347° to RW35

NW-1. 08 APR 2010 to 06 MAY 2010

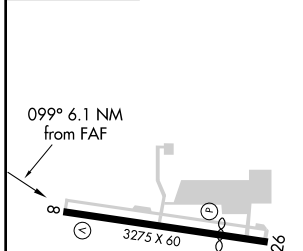
LOC/DME I-VDG 111.3 Chan 50	APP CRS 099°	Rwy Idg TDZE Apt Elev	N/A N/A 25
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NA	Use Portland Intl altimeter setting.	MISSED APPROACH: Climb to 900 then climbing left turn to 4000 direct to BTG VORTAC.
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ASOS 135.125	PORTLAND APP CON 124.35 299.2	CLNC DEL 121.65	UNICOM 123.0 (CTAF) 1
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ELEV 25	D
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RADAR REQUIRED

	BUXOM INT I-VDG 12.5 RADAR	TRAYL INT I-VDG 9.1 RADAR	I-VDG 4.8	I-VDG 3	I-VDG 116.6 BTG
	3000	2200	860		
	3.4 NM	4.3 NM	1.8 NM		
Procedure Turn NA					
CATEGORY	A	B	C	D	
CIRCLING	860-1 835 (900-1)	860-1 1/4 835 (900-1 1/4)	NA		
	DME MINIMUMS				
CIRCLING	660-1 635 (700-1)	720-1 695 (700-1)	NA		

REIL Rwy 8 and 26 MIRL Rwy 8-26 1	FAF to MAP 6.1 NM				
Knots	60	90	120	150	180
Min:Sec	6:06	4:04	3:03	2:26	2:02

AIRPORT DIAGRAM

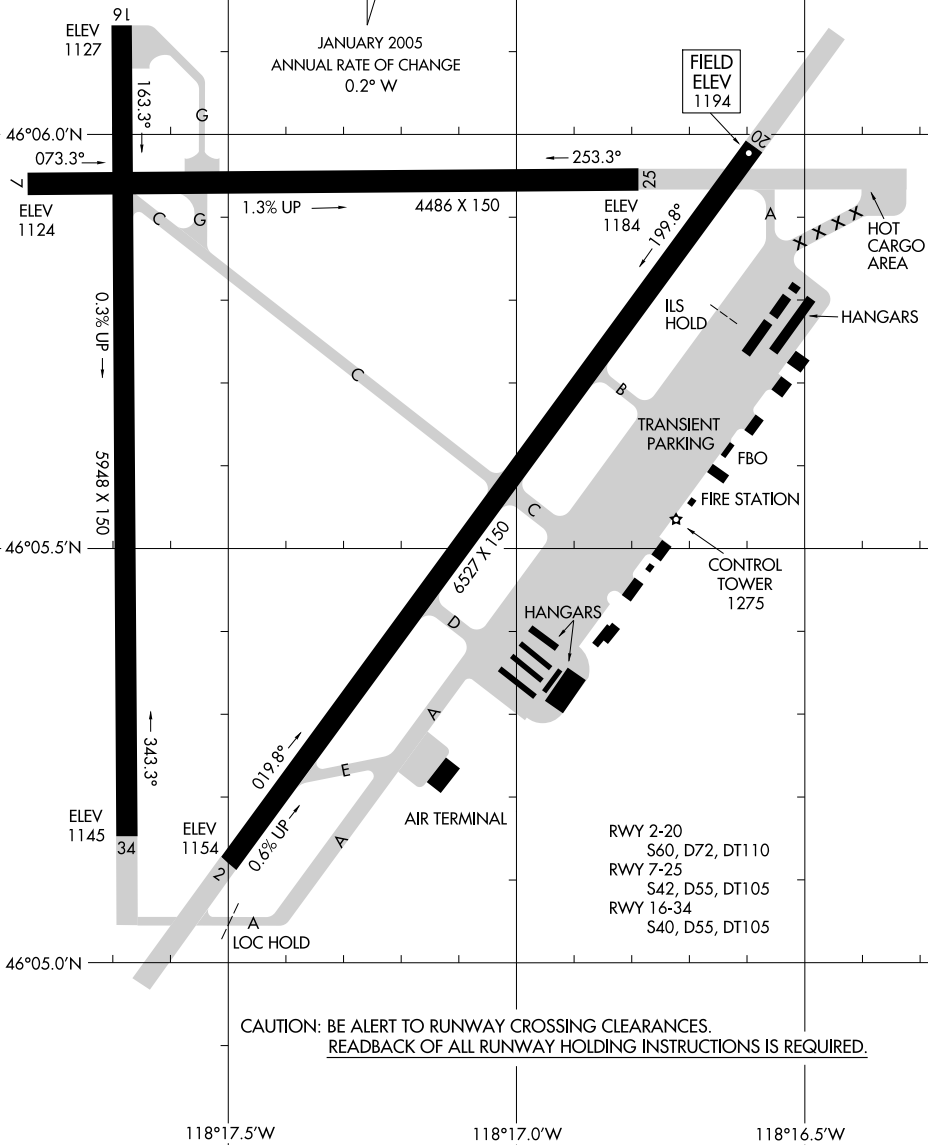
AL-440 (FAA)

WALLA WALLA RGNL (ALW)
WALLA WALLA, WASHINGTON

ASOS
135.875
WALLA WALLA TOWER ★
118.5 289.4
GND CON
121.6 289.4



JANUARY 2005
ANNUAL RATE OF CHANGE
0.2° W



NW-1, 08 APR 2010 to 06 MAY 2010

CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

118°17.5'W

118°17.0'W

118°16.5'W

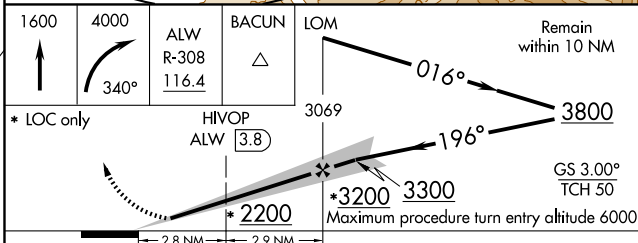
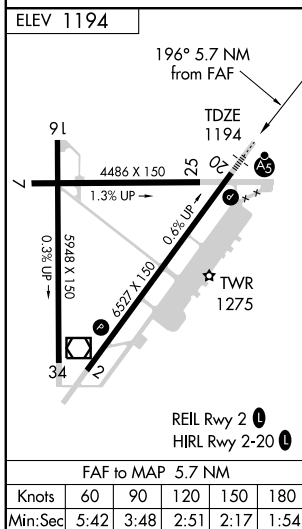
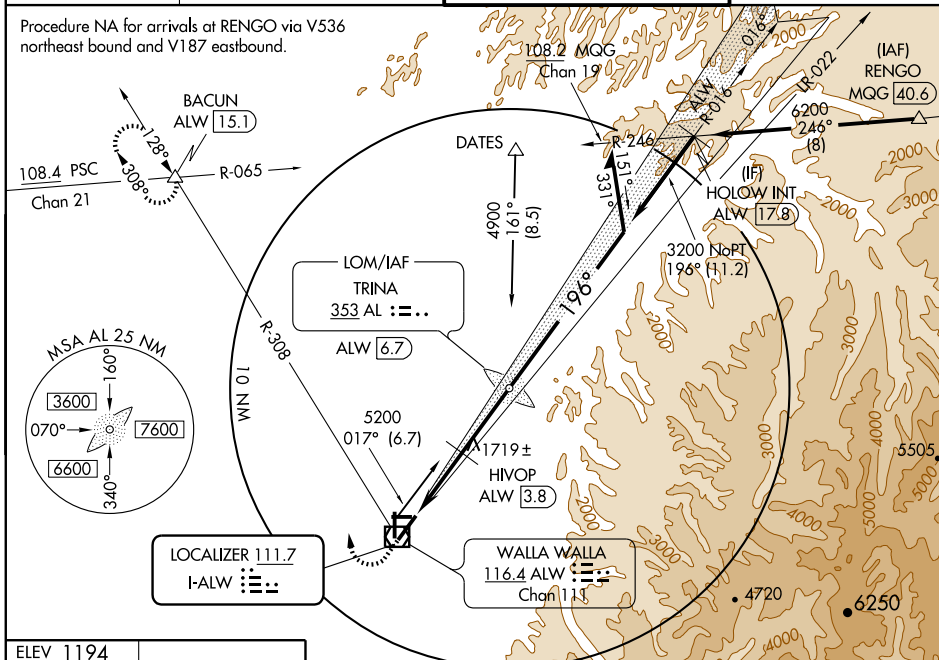
LOC I-ALW	APP CRS	Rwy Idg	6527
111.7	196°	TDZE	1194
		Apt Elev	1194

ILS or LOC RWY 20

WALLA WALLA RGNL (ALW)

▼ ▲	# RVR 1800 authorized with the use of FD or AP or HUD to DA.	MALSR 	MISSED APPROACH: Climb to 1600 then climbing right turn to 4000 heading 340° and ALW R-308 to BACUN INT/ALW 15.1 DME and hold.
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ASOS 135.875	CHINOOK APP CON ★ 133.15 379.15	WALLA WALLA TOWER ★ 118.5 (CTAF) 0 289.4	GND CON 121.6 289.4
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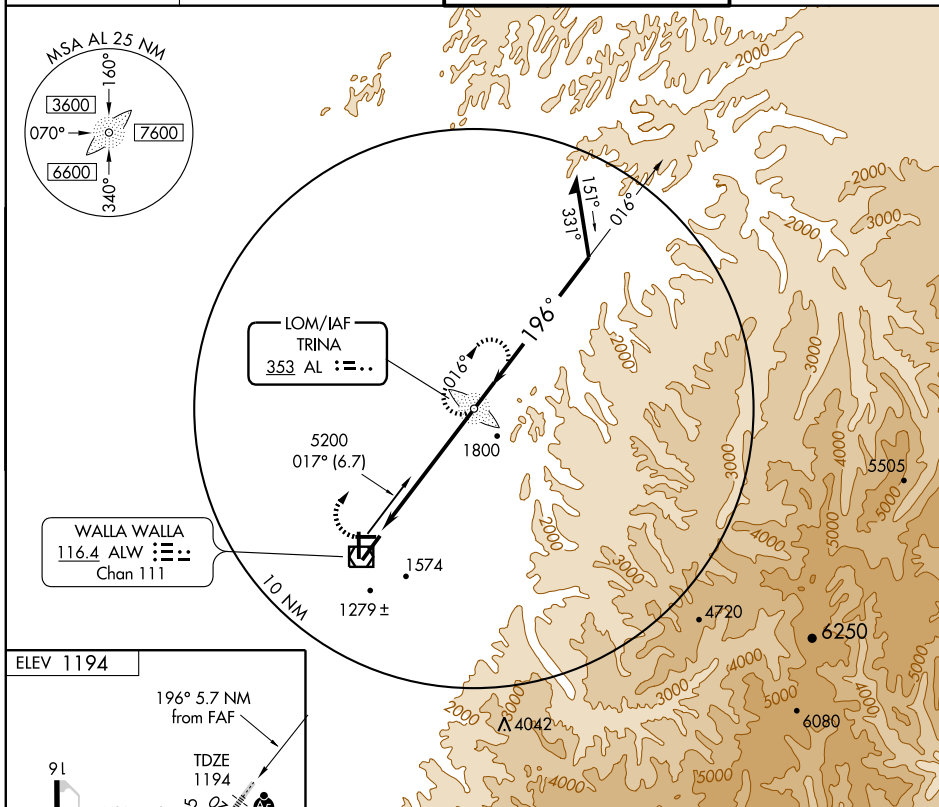
CATEGORY	A	B	C	D
S-ILS 20	#1394/24 200 (200-½)			
S-LOC 20	2200/40 1006 (1100-¾)	2200/50 1006 (1100-1)	2200-2½	1006 (1100-2½)
CIRCLING	2200-1¼ 1006 (1100-1¼)	2200-1½ 1006 (1100-1½)	2200-3	1006 (1100-3)
DME MINIMUMS				
S-LOC 20	1980/24 786 (800-½)	1980/40 786 (800-¾)	1980-1¾ 786 (800-1¾)	1980-2 786 (800-2)
CIRCLING	1980-1 786 (800-1)	1980-1¼ 786 (800-1¼)	1980-2¼ 786 (800-2¼)	1980-2½ 786 (800-2½)

LOM AL	APP CRS	Rwy Idg	6527
353	196°	TDZE	1194
		Apt Elev	1194

NDB RWY 20

WALLA WALLA RGNL (ALW)

		MALS 	MISSED APPROACH: Climbing right turn to 3700 direct TRINA LOM and hold.
ASOS 135.875	CHINOOK APP CON ★ 133.15 379.15	WALLA WALLA TOWER ★ 118.5 (CTAF) 1 289.4	GND CON 121.6 289.4



FAF to MAP 5.7 NM					
Knots	60	90	120	150	180
Min:Sec	5:42	3:48	2:51	2:17	1:54

		Remain within 10 NM 3800 3200 Maximum procedure turn entry altitude 6000.			
CATEGORY	A	B	C	D	
S-20	2200/40 1006 (1100-3/4)	2200/50 1006 (1100-1)	2200-2½ 1006 (1100-2½)	2200-2¾ 1006 (1100-2¾)	
CIRCLING	2200-1¼ 1006 (1100-1¼)	2200-1½ 1006 (1100-1½)	2200-3	1006 (1100-3)	

WAAS	APP CRS	Rwy Idg	6527
CH 72805	016°	TDZE	1173
W02A		Apt Elev	1194

▼

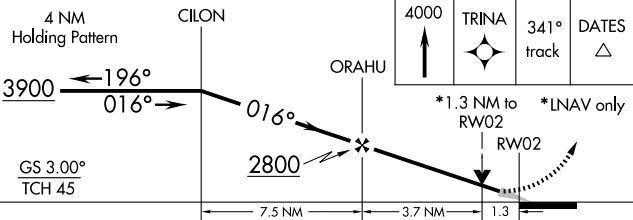
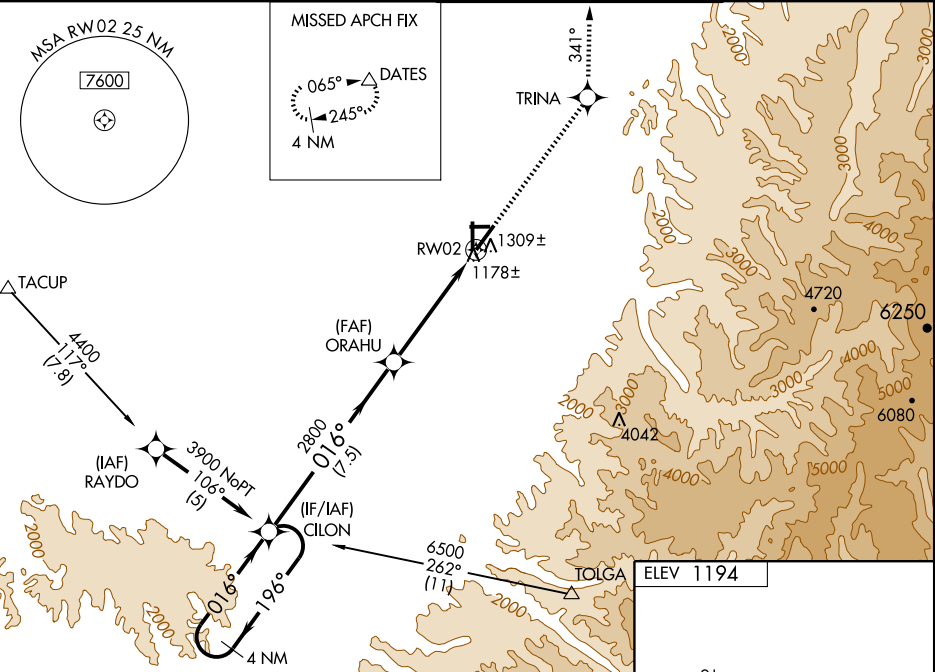
DME/DME RNP- 0.3 NA.

▲

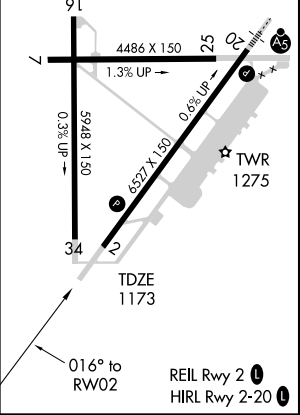
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C (2°F) or above 46°C (114°F).
When local altimeter setting not received, use Pendleton altimeter setting and increase all DAs/MDAs 120 feet and LPV visibilities ¼ mile, LNAV/VNAV visibilities ½ mile, LNAV Cats. C/D visibility ¼ mile, and Circling Cat. C/D visibility ½ mile.
VDP and Baro-VNAV NA when using Pendleton altimeter setting.

MISSED APPROACH: Climb to 4000 direct TRINA and via 341° track to DATES and hold.

ASOS 135.875	CHINOOK APP CON ★ 133.15 379.15	WALLA WALLA TOWER ★ 118.5 (CTAF) 0 289.4	GND CON 121.6 289.4
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CATEGORY	A	B	C	D
LPV DA	1423-1	250 (300-1)		
LNAV/VNAV DA	1612-1½	439 (500-1½)		
LNAV MDA	1620-1 447 (500-1)	1620-1¼ 447 (500-1¼)	1620-1½ 447 (500-1½)	
CIRCLING	1760-1 566 (600-1)	1820-1¾ 626 (700-1¾)	1980-2½ 786 (800-2½)	



APP CRS 160°	Rwy Idg 5948
	TDZE 1136
	Apt Elev 1194

RNAV (GPS) RWY 16

WALLA WALLA RGNL (ALW)

Straight-in/circling to Rwy 16 NA at night.
 DME/DME RNP-0.3 NA.
 Inoperative table does not apply.

MISSED APPROACH: Climb to 4000 direct LUPBI
 and via 203° track to PACON and hold.

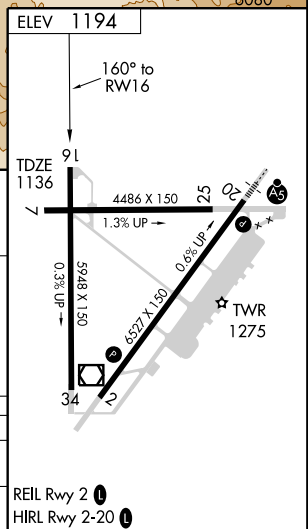
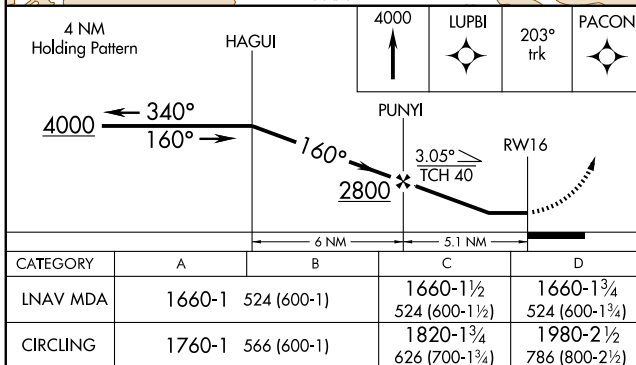
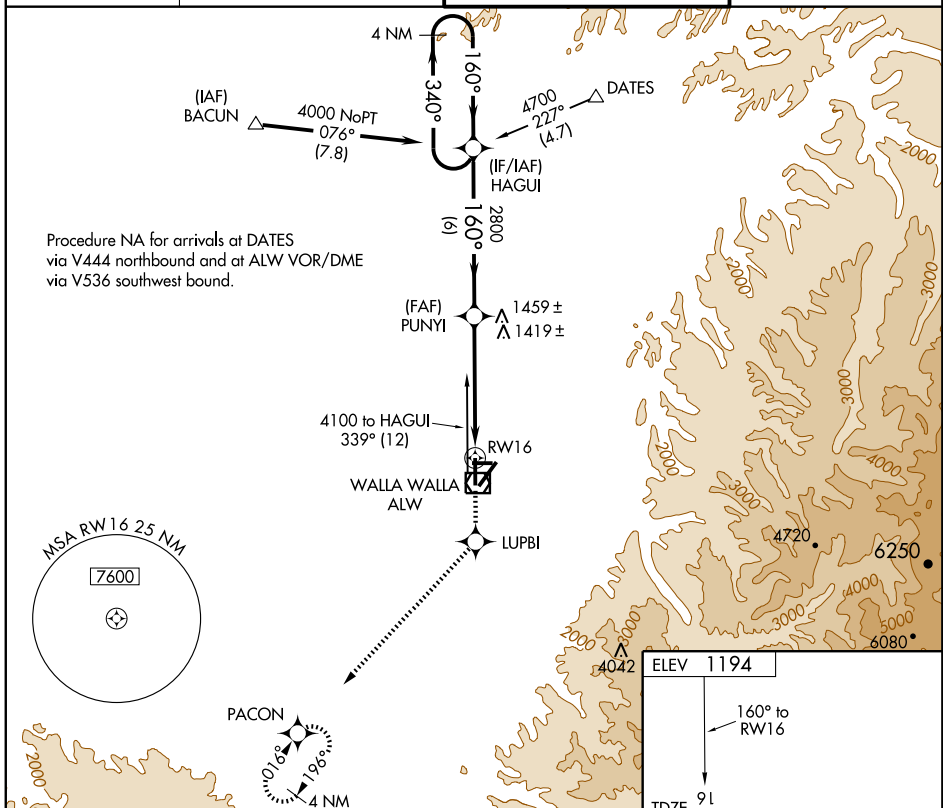
ASOS
135.875

CHINOOK APP CON ★
133.15 379.15

WALLA WALLA TOWER ★
118.5 (CTAF) 0 289.4

GND CON
121.6 289.4

Procedure NA for arrivals at DATES
 via V444 northbound and at ALW VOR/DME
 via V536 southwest bound.



WAAS CH 90299 W20A	APP CRS 196°	Rwy Idg TDZE Apt Elev	6527 1194 1194
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RNAV (GPS) RWY 20

WALLA WALLA RGNL (ALW)

DME/DME RNP-0.3 NA.
Baro-VNAV NA below -17°C (2°F).
 For inoperative MALSR, increase LPV visibility all Cats to RVR 4000.



MISSED APPROACH: Climb to 4000 direct PACON and hold.

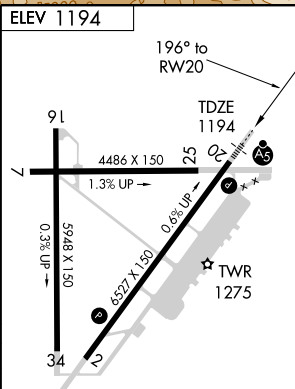
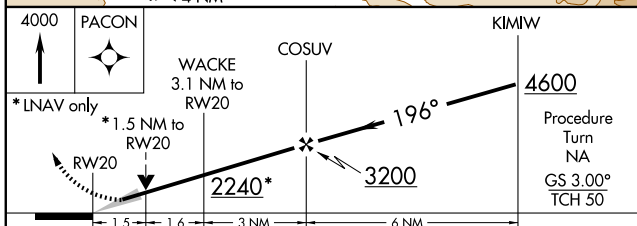
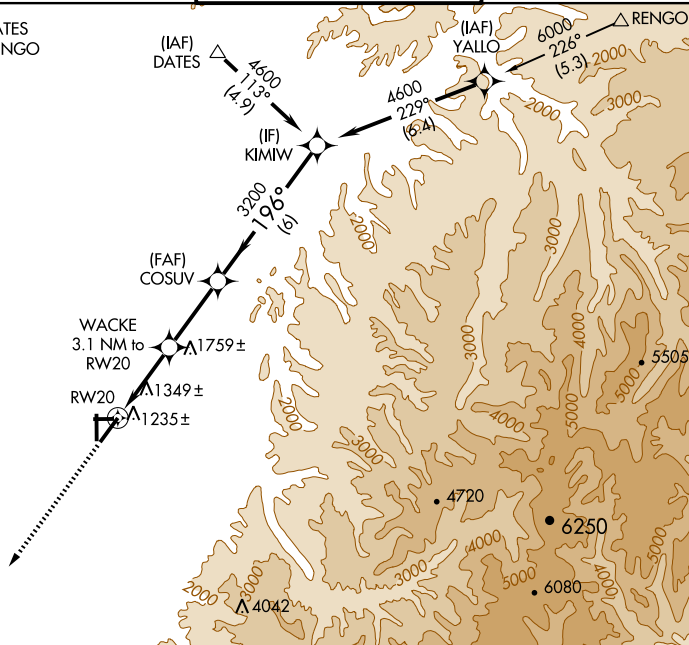
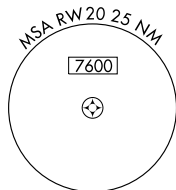
ASOS
135.875

CHINOOK APP CON ★
133.15 379.15

WALLA WALLA TOWER ★
118.5 (CTAF) 0 289.4

GND CON
121.6 289.4

Procedure NA for arrivals at DATES via V444 northbound and at RENG0 via V536 northeast bound.



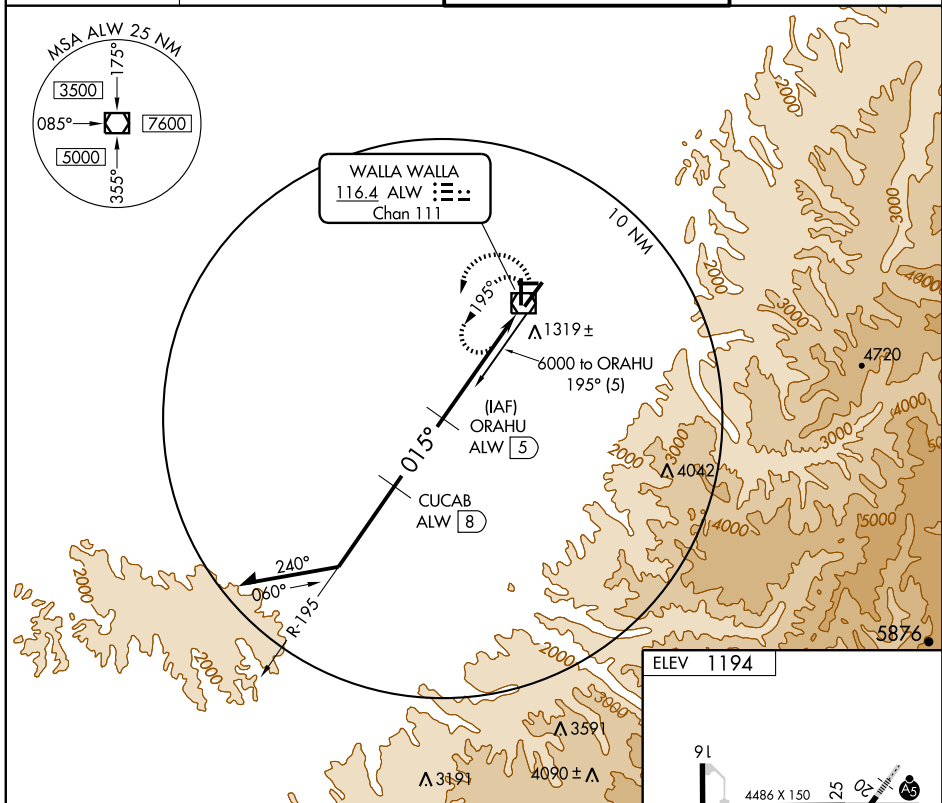
CATEGORY	A	B	C	D
LPV DA	1444/24 250 (300-½)			
LNNAV/VNAV	1694/60 500 (500-1¼)			
LNNAV MDA	1720/24 526 (600-½)		1720/50 526 (600-1)	1720/60 526 (600-1¼)
CIRCLING	1760-1¾ 566 (600-1¾)		1820-1¾ 626 (700-1¾)	1980-2½ 786 (800-2½)

REIL Rwy 2 0
HIRL Rwy 2-20 0

VOR/DME RWY 2
WALLA WALLA RGNL (ALW)

MISSED APPROACH: Climbing left turn to 3300 via ALW VOR/DME R-195 within 10 DME then turn right direct ALW VOR/DME and hold.

GND CON
121.6 289.4



CATEGORY	A	B	C	D
S-2	1580-1	405 (400-1)	1580-1¼	405 (400-1¼)
CIRCLING	1760-1	566 (600-1)	1820-1¾ 626 (700-1¾)	1980-2½ 786 (800-2½)

REIL Rwy 2 **L**
HIRL Rwy 2-20 **L**

VOR/DME ALW	APP CRS	Rwy Idg	5948
116.4	154°	TDZE	1136
Chan 111		Apt Elev	1194

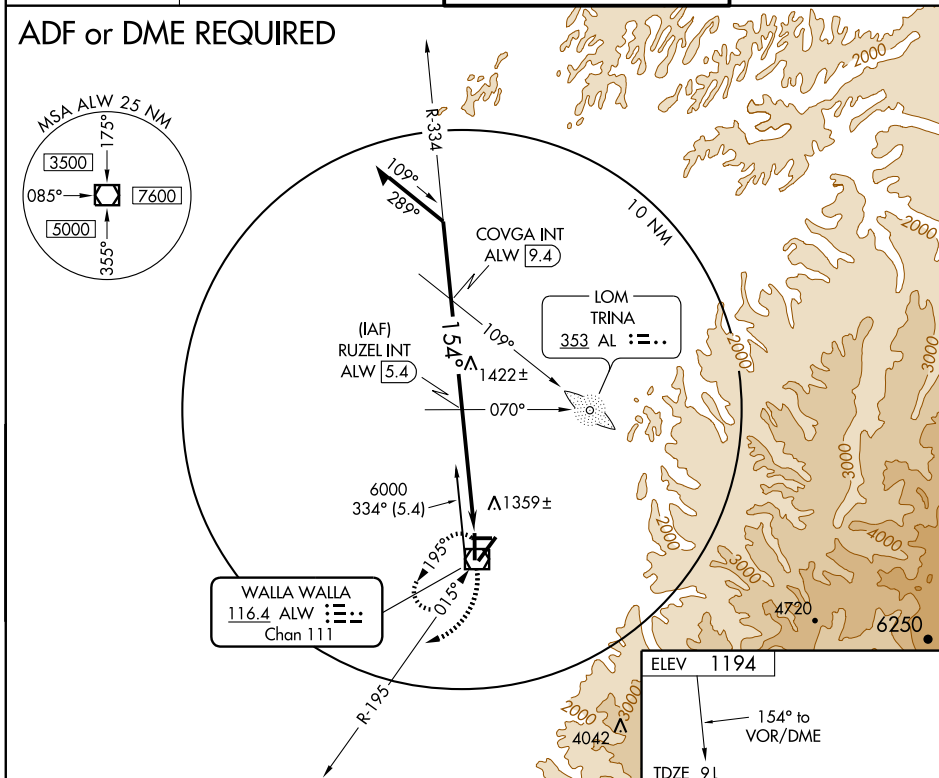
VOR RWY 16

WALLA WALLA RGNL (ALW)

<p>▼ Straight-in/circling to Rwy 16 NA at night.</p> <p>▲ NA Inoperative table does not apply.</p>	<p>MISSED APPROACH: Climbing right turn to 3000 via ALW VOR/DME R-195 within 10 DME then right turn direct ALW VOR/DME and hold.</p>
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ASOS 135.875	CHINOOK APP CON ★ 133.15 379.15	WALLA WALLA TOWER ★ 118.5 (CTAF) 1 289.4	GND CON 121.6 289.4
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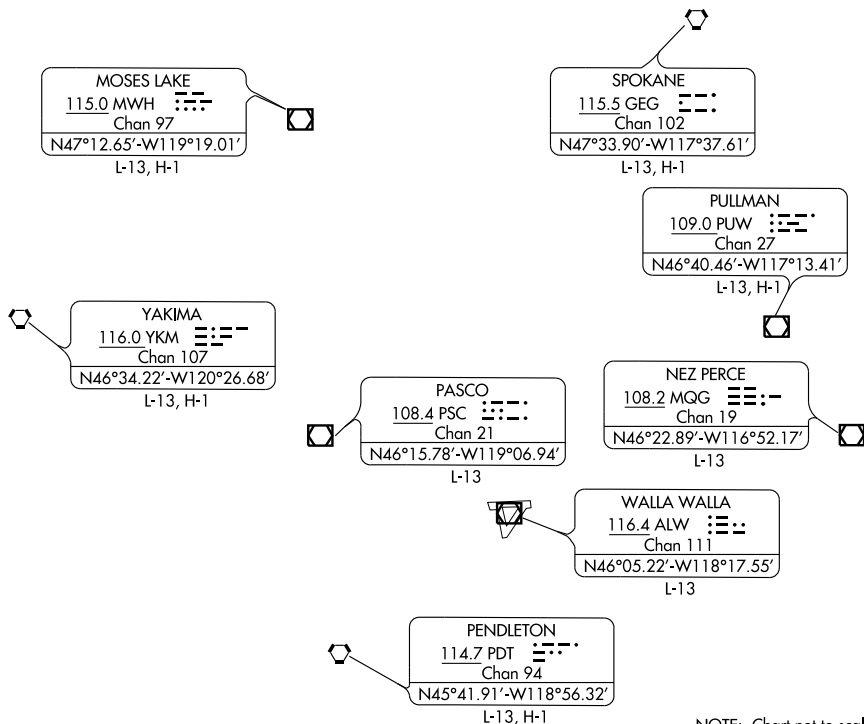
ADF or DME REQUIRED



<p>Remain within 10 NM</p> <p>4000 334°</p> <p>3400 154°</p> <p>2700</p> <p>3.23° TCH 55</p> <p>4 NM 4.4 NM</p>				
<p>RUZEL INT ALW 5.4</p> <p>3000 ALW R-195</p> <p>ALW 116.4</p> <p>VOR/DME</p> <p>TDZE 1136</p> <p>154° to VOR/DME</p> <p>4486 X 150 1.3% UP</p> <p>5948 X 150 0.3% UP</p> <p>6327 X 150 0.6% UP</p> <p>25 2</p> <p>34</p> <p>TWR 1275</p>				
CATEGORY	A	B	C	D
S-16	1620-1	484 (500-1)	1620-1½ 484 (500-1½)	1620-1½ 484 (500-1½)
CIRCLING	1760-1	566 (600-1)	1820-1¾ 626 (700-1¾)	1980-2½ 786 (800-2½)

REIL Rwy 2 1
HIRL Rwy 2-20 1

WALLA WALLA GND CON
121.6 289.4
WALLA WALLA TOWER ★
118.5 (CTAF) 289.4
CHINOOK APP CON ★
133.15 379.15



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF ALL RUNWAYS: Climb via specified turn and heading for vector to assigned route.

LOST COMMUNICATIONS: If not in contact with Departure Control after reaching 2500' continue climb to assigned altitude and proceed direct to ALW VOR/DME, thence via assigned route.

Note: Air Traffic Control may assign turns and magnetic headings of 195° clockwise through 020° in the initial clearance.

LOC/DME I-ADJ	APP CRS	Rwy Idg	5700
109.35	116°	TDZE	1226
Chan 30(Y)		Apt Elev	1249

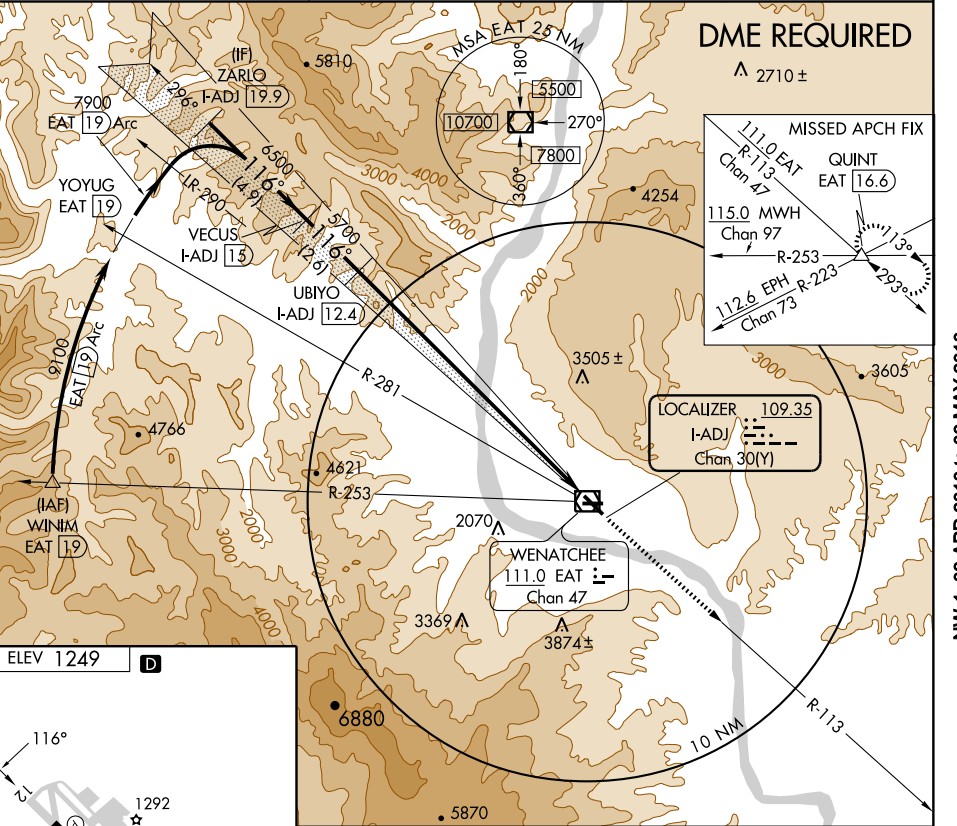
▼

▲

When VGSI inoperative, procedure NA at night.

MISSED APPROACH: Climb to 4000 direct EAT VOR/DME and via EAT R-113 to QUINT INT/EAT 16.6 DME and hold.

ASOS 119.925	SEATTLE CENTER 126.1 291.6	UNICOM 123.0 (CTAF) 0
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ELEV 1249 D

116°

TDZE 1226

5700 X 150

4460 X 75

1292

1276

1258±

30

1.0% UP

RAIL Rwy 30
REIL Rws 12 and 30 0
MIRL Rwy 12-30 0

	ZARLO I-ADJ 19.9	VECUS I-ADJ 15	UBIYO I-ADJ 12.4	4000 EAT 111.0	EAT R-113 111.0	QUINT 16.6
	7900	6500	5700	Use I-ADJ DME when on the localizer course. VGSI and ILS glidepath not coincident.		
	Procedure Turn NA					
	GS 3.60°					
	TCH 46					
	4.9 NM	2.6 NM	11.3 NM			
CATEGORY	A	B	C	D		
S-ILS 12	2539-4	1313 (1300-4)		NA		
CIRCLING				NA		

VOR/DME EAT
111.0
Chan **47**

APP CRS
285°

Rwy Idg
TDZE
Apt Elev
N/A
N/A
1249

VOR/DME-A

WENATCHEE/PANGBORN MEMORIAL (EAT)

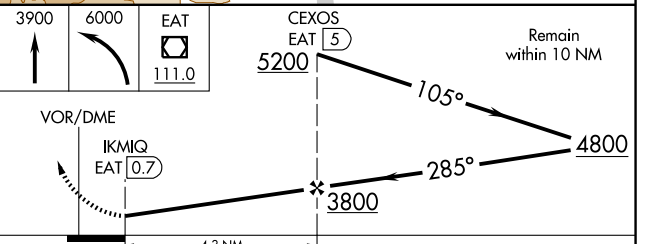
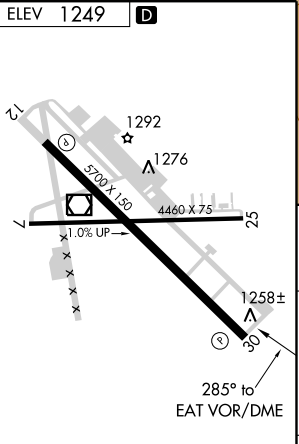
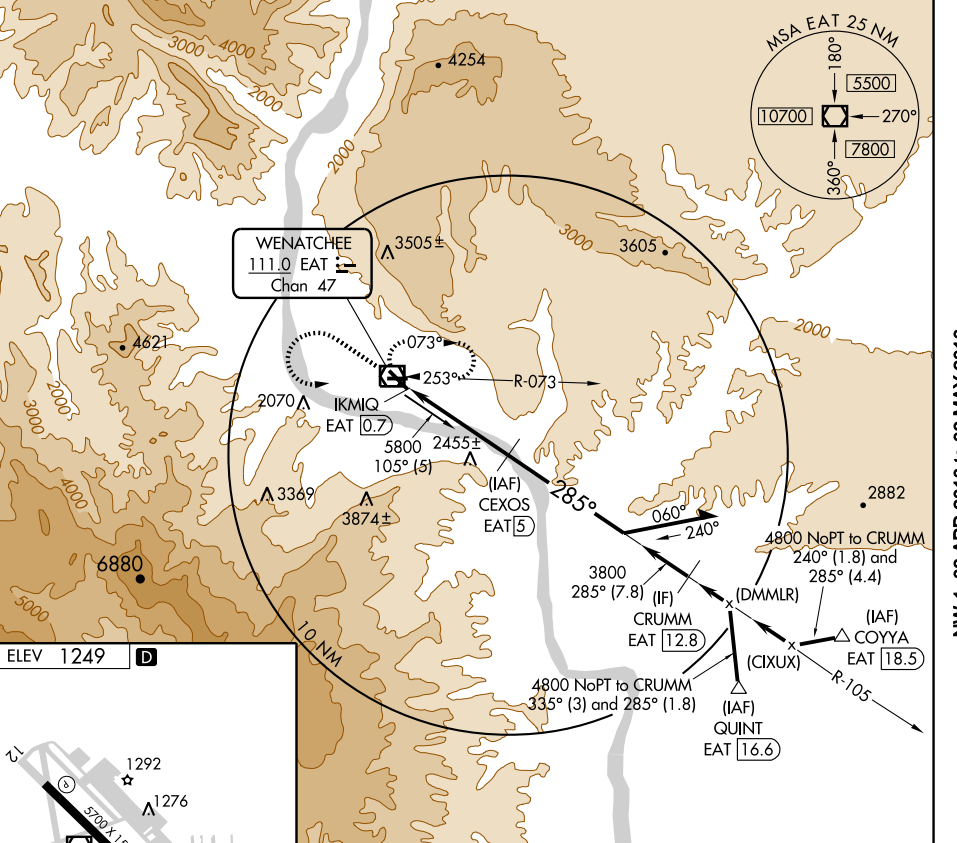
▼

▲

Circling NA northeast of Rwy 12-30.
When local altimeter setting not received, use Ephrata altimeter setting and increase all MDA 80 feet.

MISSED APPROACH: Climb to 3900 then climbing left turn to 6000 direct EAT VOR/DME and hold, continue climb-in-hold to 6000.

ASOS 119.925	SEATTLE CENTER 126.1 291.6	UNICOM 123.0 (CTAF) 0
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RAIL Rwy 30
REIL Rwy 12 and 30
MRL Rwy 12-30

CATEGORY	A	B	C	D
CIRCLING	3180-1¼ 1931 (2000-1¼)	3180-1½ 1931 (2000-1½)	3180-3 1931 (2000-3)	

NW-1. 08 APR 2010 to 06 MAY 2010

VOR/DME EAT 111.0 Chan 47	APP CRS 100°	Rwy Idg TDZE Apt Elev 1249	N/A N/A 1249
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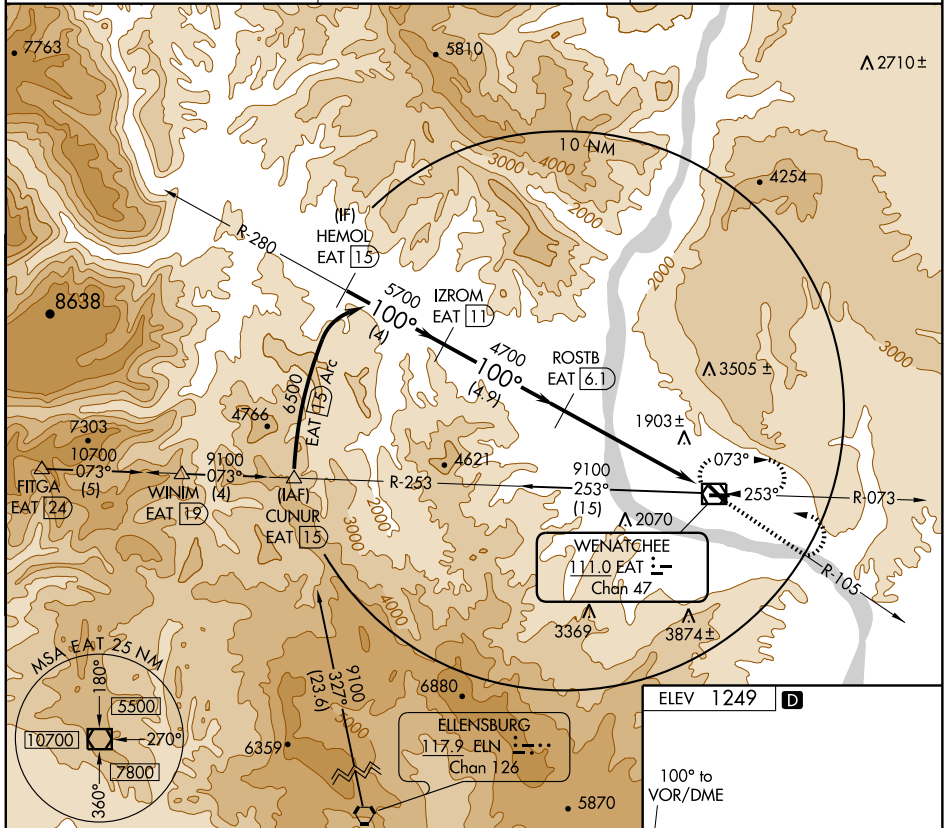
VOR/DME-C

WENATCHEE/PANGBORN MEMORIAL (EAT)

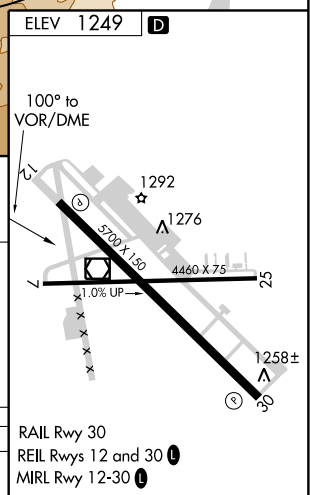
⚠ Circling NA northeast of Rwy 12-30.
⚠ When local altimeter setting not received, use Ephrata altimeter setting and increase all MDA 80 feet.

MISSED APPROACH: Climb to 5000 via EAT VOR/DME R-105 then climbing left turn to 7500 direct EAT VOR/DME and hold, continue climb-in-hold to 7500.

ASOS 119.925	SEATTLE CENTER 126.1 291.6	UNICOM 123.0 (CTAF) ①
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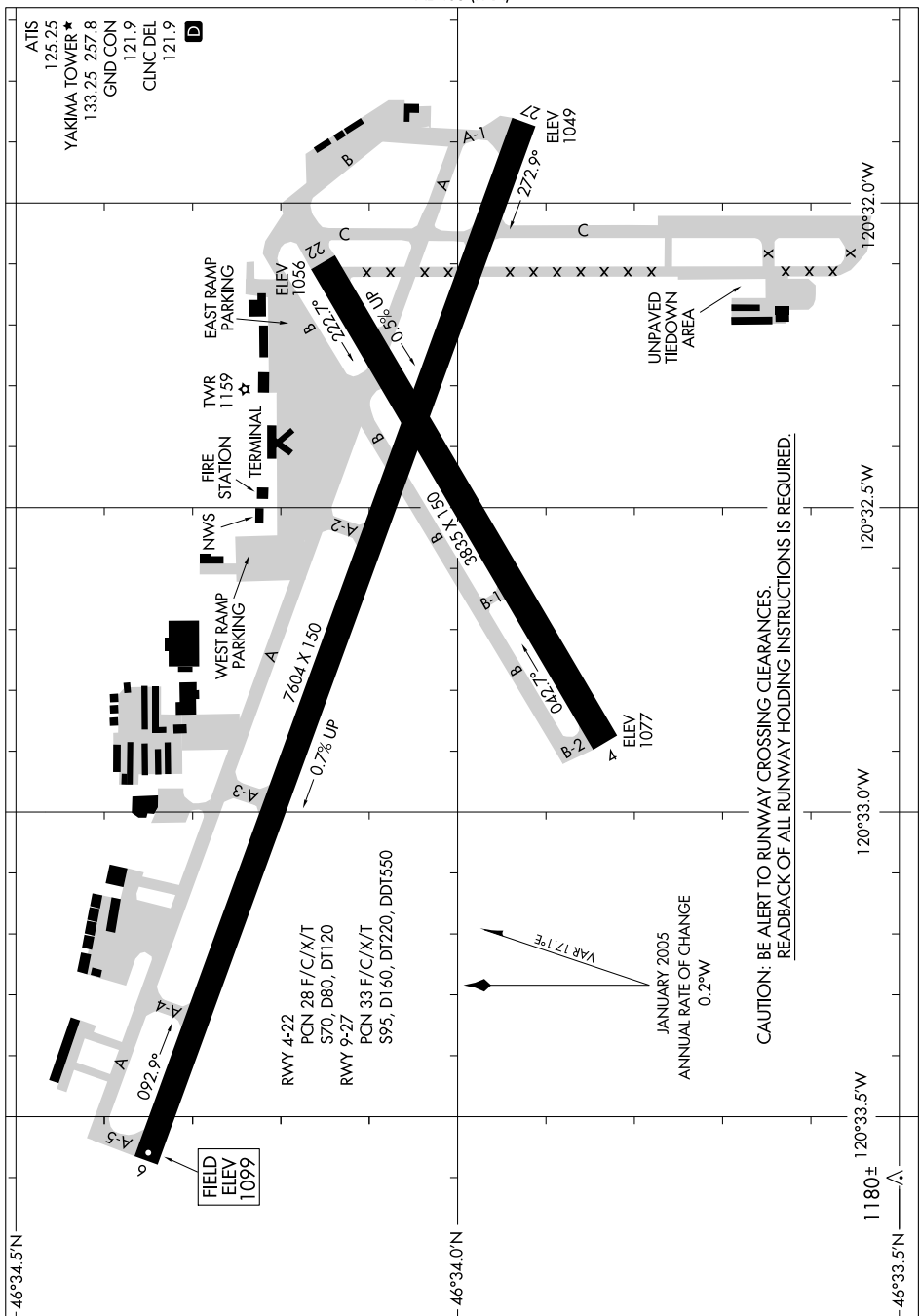
HEMOL EAT 15	IZROM EAT 11	ROSTB EAT 6.1	5000 EAT R-105	7500 EAT 111.0
6500	5700	4700	VOR/DME	
Procedure Turn NA				
4 NM		4.9 NM		6.1 NM
CATEGORY	A	B	C	D
CIRCLING	2660-1¼ 1411 (1500-1¼)	2660-1½ 1411 (1500-1½)	2660-3	1411 (1500-3)



NW-1, 08 APR 2010 to 06 MAY 2010

AIRPORT DIAGRAM

YAKIMA AIR TERMINAL/MCALLISTER FIELD (YKM)
AL-465 (FAA) YAKIMA, WASHINGTON



NW-1, 08 APR 2010 to 06 MAY 2010

LOM YK <u>371</u>	APCH CRS 269°	Rwy ldg 7603 TDZE 1065 Arpt Elev 1095
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AL-465 [USA]

YAKIMA AIR TERMINAL/ MC ALLISTER FLD (KYKM)

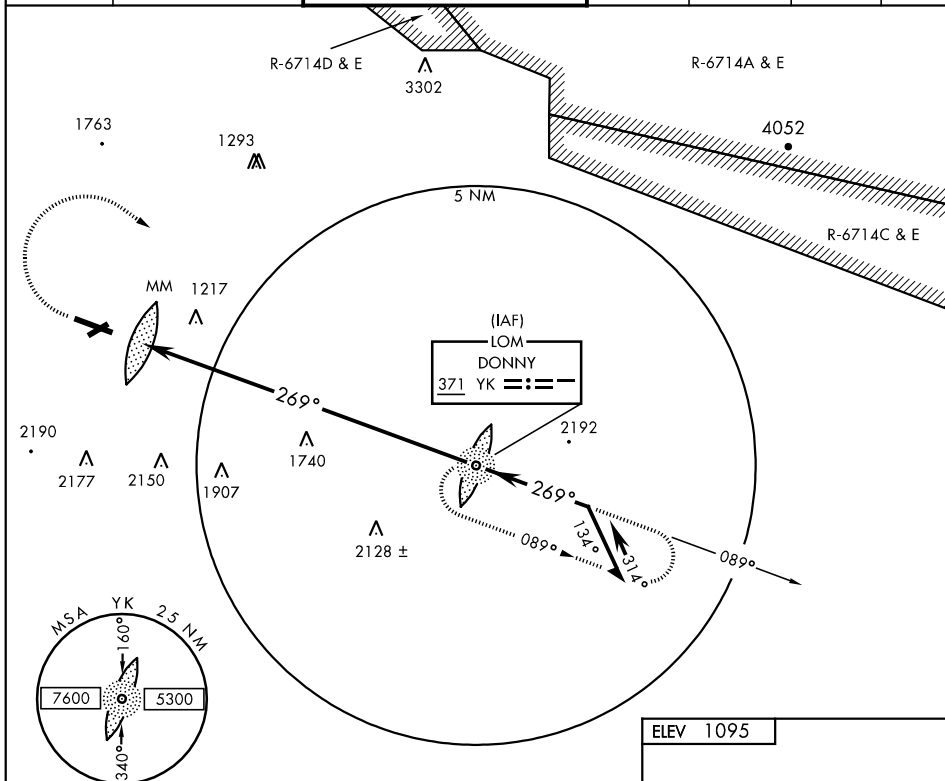


A NA

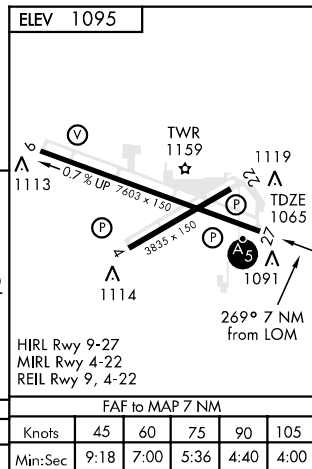
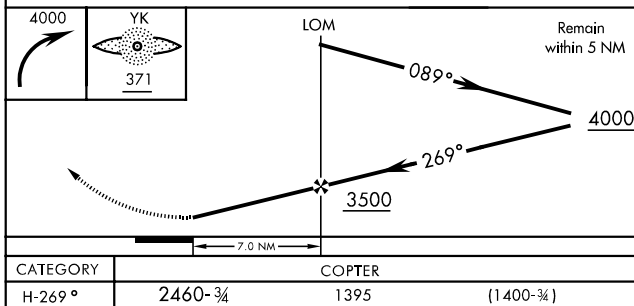


MISSED APPROACH: Climbing right turn to 4000 direct DONNY LOM and hold.

ATIS ★ 125.25	CHINOOK APP CON 123.8 263.15	YAKIMA TOWER ★ 133.25 (CTAF) 0 257.8	GND CON 121.9	CLNC DEL 121.9	UNICOM 122.95	ASOS
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COPTER ONLY



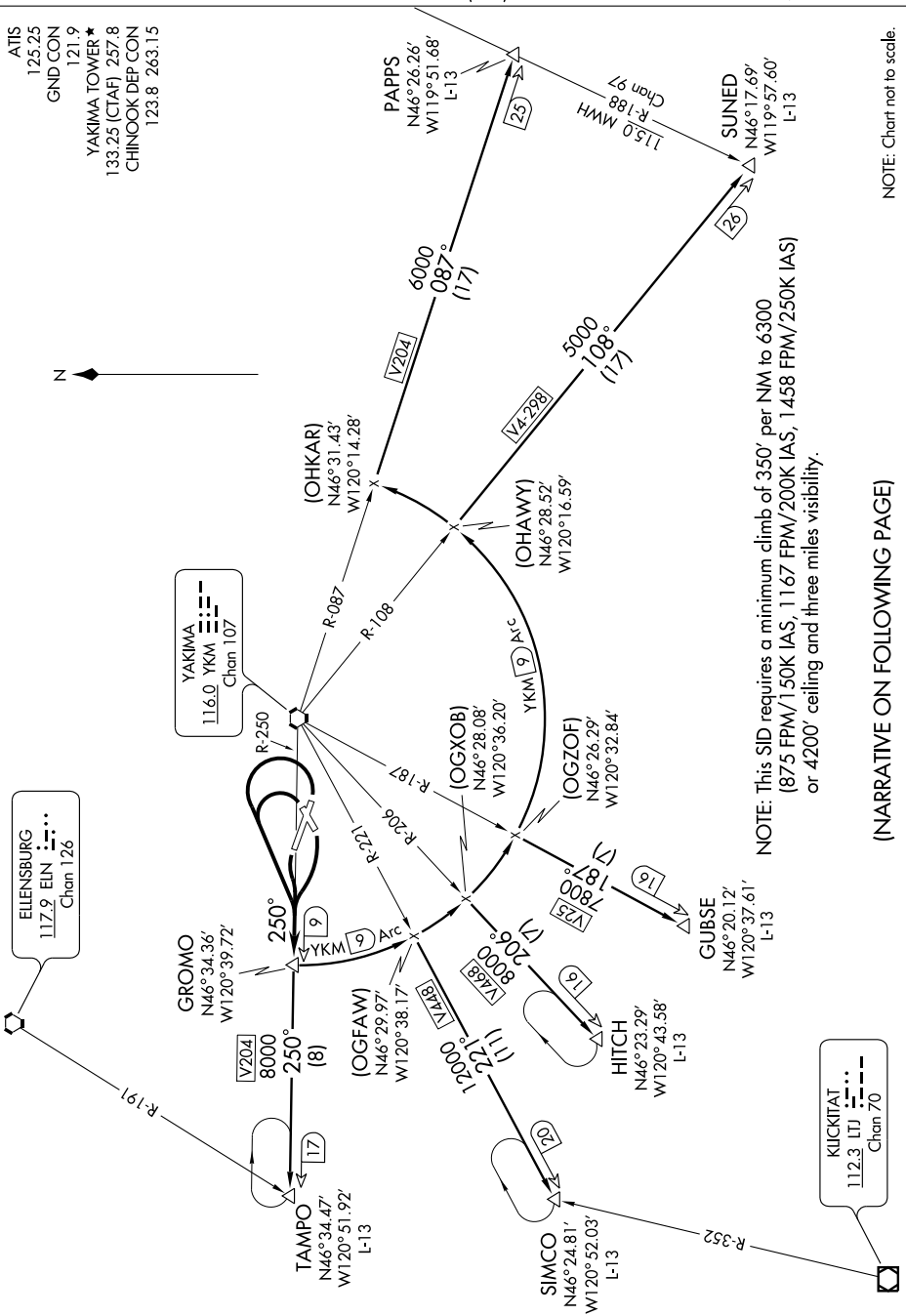
GROMO TWO DEPARTURE

YAKIMA AIR TERMINAL/MCALLISTER FIELD (YKM)

SL-465 (FAA)

YAKIMA, WASHINGTON

ATIS
125.25
GND CON
121.9
YAKIMA TOWER ★
133.25 (CTAF) 257.8
CHINOOK DEP CON
123.8 263.15



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 4, 9: Turn left, thence....

TAKE-OFF RUNWAY 22: Turn right, thence....

TAKE-OFF RUNWAY 27: Climb runway heading, thence....

....Intercept and proceed via YKM R-250 to the GROMO DME Fix (YKM R-250/9), thence via (assigned transition).

GUBSE TRANSITION (GROMO2.GUBSE): From over GROMO DME Fix via 9 DME Arc and V25 to GUBSE DME Fix.

HITCH TRANSITION (GROMO2.HITCH): From over GROMO DME Fix via 9 DME Arc and V468 to HITCH DME Fix. NOTE: Climb in holding pattern NE of HITCH DME Fix, right turns, 206° inbound to 8000 feet before proceeding on course.

PAPPS TRANSITION (GROMO2.PAPPS): From over GROMO DME Fix via 9 DME Arc and V204 to PAPPS INT.

SIMCO TRANSITION (GROMO2.SIMCO): From over GROMO DME Fix via 9 DME Arc and V448 to SIMCO INT. NOTE: Climb in holding pattern NE of SIMCO INT, right turns, 221° inbound to 12000 feet before proceeding on course.

SUNED TRANSITION (GROMO2.SUNED): From over GROMO DME Fix via 9 DME Arc and V4 to SUNED INT.

TAMPO TRANSITION (GROMO2.TAMPO): From over GROMO DME Fix via V204 to TAMPO INT. NOTE: Climb in holding pattern east of TAMPO INT, right turns, 250° inbound to 8000' before proceeding on course.

LOC I-YKM	APP CRS	Rwy Idg	7604
110.1	274°	TDZE	1068
		Apt Elev	1099

ILS Y RWY 27

YAKIMA AIR TERMINAL/MCALLISTER FIELD (YKM)

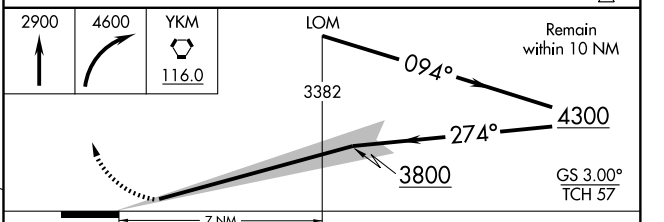
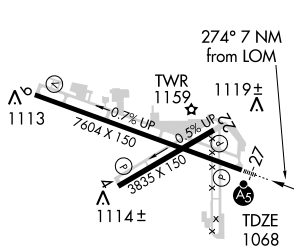
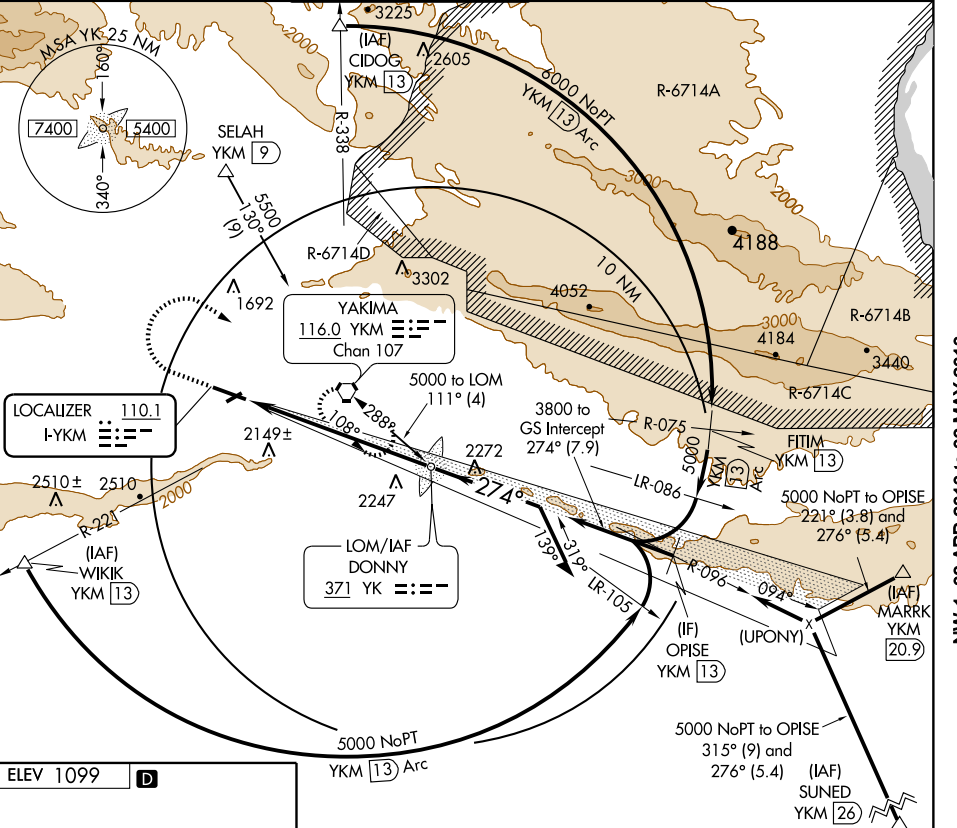
For inoperative MALS, increase S-ILS 27 all Cats visibility to 2 1/4 .

Circling NA south of Rwy 9/27. When local altimeter setting not received, procedure NA. Circling requires descent on GS to CMDA.

MALS

MISSED APPROACH: Climb to 2900 then climbing right turn to 4600 direct YKM VORTAC and hold, continue climb-in-hold to 4600.

ATIS	CHINOOK APP CON*	YAKIMA TOWER*	GND CON	CLNC DEL	UNICOM
125.25	123.8 263.15	133.25 (CTAF) 257.8	121.9	121.9	122.95



MIRL Rwy 4-22				
HIRL Rwy 9-27				
REIL Rws 4, 9, and 22				

CATEGORY	A	B	C	D
S-ILS 27	1668-1 3/4	600 (600-1 3/4)		
CIRCLING	1680-2 1/4	581 (600-2 1/4)	1700-2 1/4 601 (700-2 1/4)	1800-2 1/4 701 (800-2 1/4)

NW-1. 08 APR 2010 to 06 MAY 2010

YAKIMA AIR TERMINAL/MCALLISTER FIELD (YKM)

MISSED APPROACH: Climb to 2600, then climbing right turn to 4600 direct YKM VORTAC and hold, continue climb-in-hold to 4600.

MSA YK 25 NM
160°
340°
7400
5400

SELAH
YKM 9
5000
130°

Missed approach obstructions
requires minimum climb gradient
of 250 feet/NM.

LOCALIZER 110.1
I-YKM

2510± 2510
R-221
(IAF)
WIKIK
YKM 13

YAKIMA
116.0 YKM
Chan 107

5000 to LOM
111° (4)

3800 to
GS Intercept
274° (7.9)

LR-086

LR-105

LR-096

(IF)
OPISE
YKM 13

(UPONY)

(IAF)
MARKK
YKM 20.9

5000 NoPT
YKM 13 Arc

5000 NoPT to OPISE
315° (9) and
276° (5.4) (IAF)
SUNED
YKM 26

ELEV 1099 D

274° 7 NM from LOM

1113

1119±

1114±

3835 X 150

3800

3382

4300

4600

LOM

094°

274°

7 NM

TDZE 1068

CATEGORY	A	B	C	D
S-ILS 27	**1268/24 200 (200-½)			
CIRCLING	1640-1 541 (600-1)	1660-1 561 (600-1)	1700-1¾ 601 (700-1¾)	1800-2¼ 701 (800-2¼)

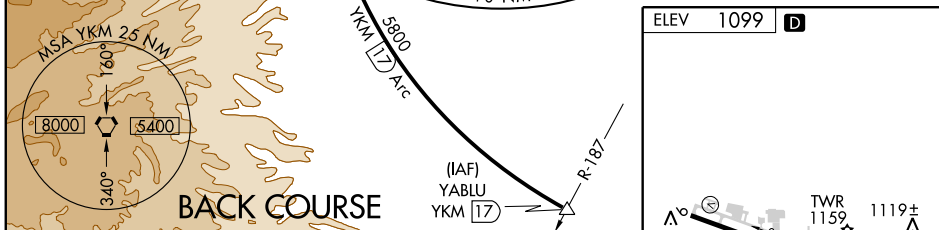
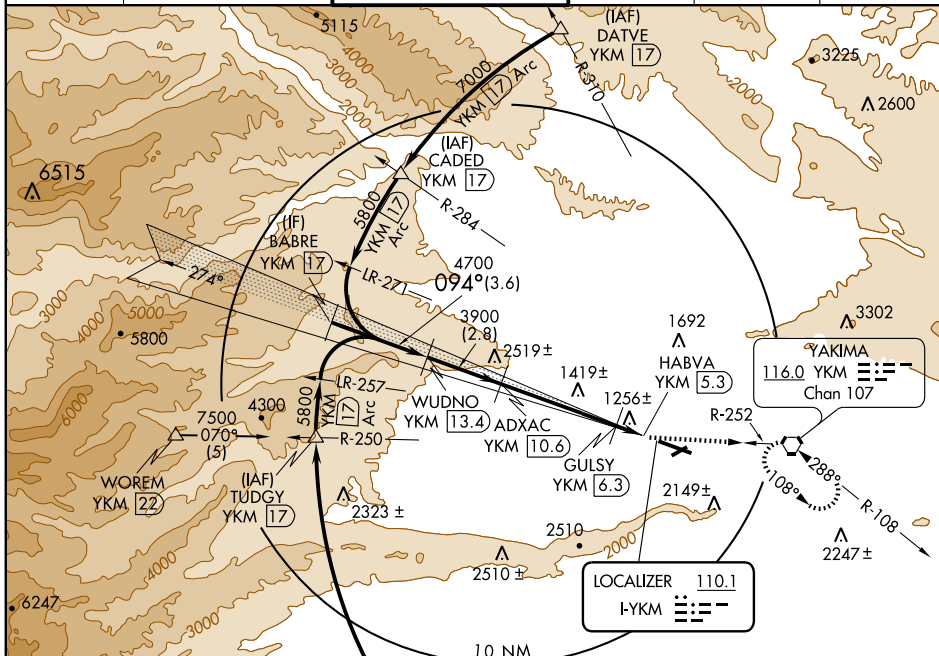
LOC I-YKM	APP CRS	Rwy Idg TDZE	N/A
110.1	094°	Apt Elev	1099

LOC/DME BC-B

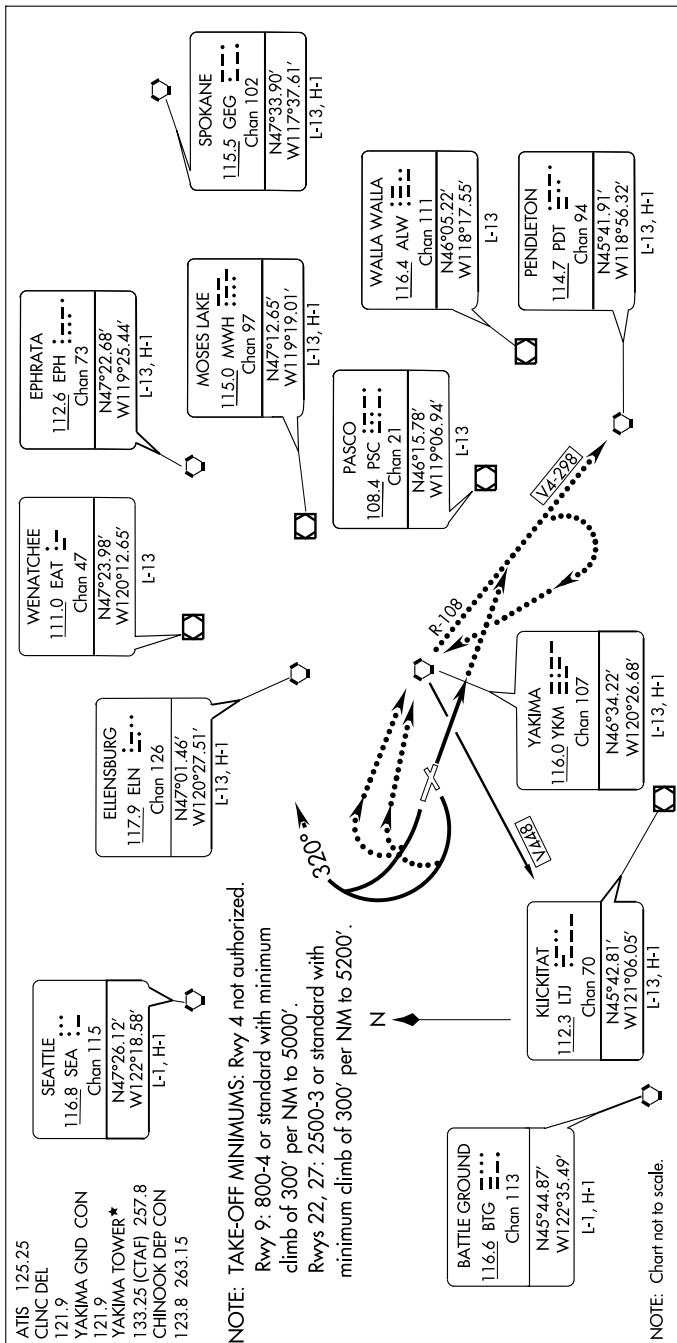
YAKIMA AIR TERMINAL/MCALLISTER FIELD (YKM)

<p>Simultaneous reception of I-YKM and YKM DME required.</p> <p>Circling NA south of Rwy 9-27.</p> <p>When local altimeter setting not received, procedure NA.</p>	<p>MISSED APPROACH: Climb to 4600 via YKM VORTAC R-252 to YKM VORTAC and hold, continue climb-in-hold to 4600.</p>
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ATIS	CHINOOK APP CON ★	YAKIMA TOWER ★	GND CON	CLNC DEL	UNICOM
125.25	123.8 263.15	133.25 (CTAF) 0 257.8	121.9	121.9	122.95



BABRE YKM 17		WUDNO YKM 13.4		ADXAC YKM 10.6		GULSY YKM 6.3		HABVA YKM 5.3		YKM 116.0		4600 YKM R-252		VGSI and descent angles not coincident.		1113	
5800		4700		094°		3900		2160		5.94°		TCH 50		Disregard glide slope indications.		7604 X 150	
Procedure Turn NA																3835 X 150	
		3.6 NM		2.8 NM		4.4 NM		1 NM		0.6						1114±	
CATEGORY		A		B		C		D									
CIRCLING		1760-1		661 (700-1)		1760-1 ³ / ₄		1800-2 ¹ / ₄									
						661 (700-1 ³ / ₄)		701 (800-2 ¹ / ₄)									



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 9: Runway heading for vector to assigned route/fix. Thence

TAKE-OFF RUNWAY 22 and 27: Turn right heading 320° for vector to assigned route/fix. Thence

.... Maintain 10,000' or assigned lower altitude. Expect clearance to filed altitude 5 minutes after departure.

LOST COMMUNICATIONS: If no transmissions are received for one minute after departure: Rwy 9 climb runway heading and outbound YKM VORTAC R-108, Rwy 22, climbing right turn direct YKM VORTAC and outbound YKM VORTAC R-108, Eastbound V4-V298 climb on course, other departures continue climb on YKM R-108 until reaching assigned altitude, (southwestbound V448 continue minimum climb of 300' per NM to 9500') then climbing right turn direct YKM VORTAC. Cross YKM VORTAC at or above MEA or MCA for route of flight.

APP CRS	Rwy Idg	7604
264°	TDZE	1068
	Apt Elev	1099

RNAV (GPS) Y RWY 27

YAKIMA AIR TERMINAL/MCALLISTER FIELD (YKMA)

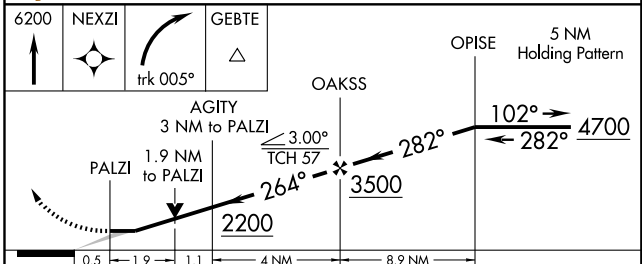
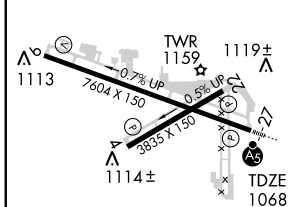
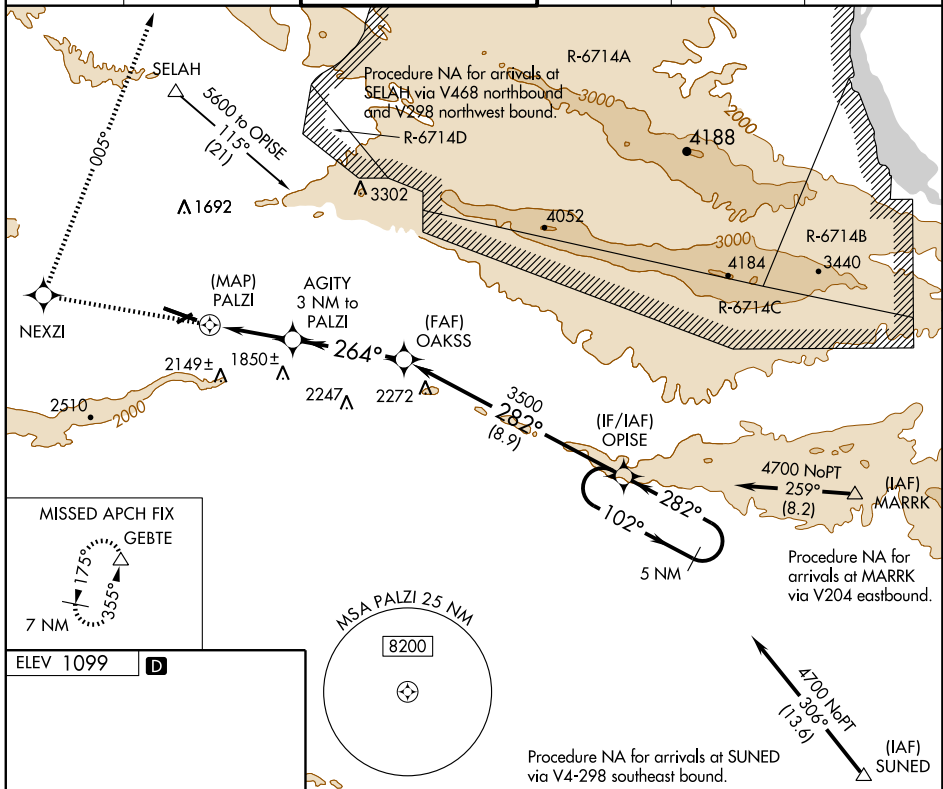
▼ When local altimeter setting not received, procedure NA. Circling NA south of Rwy 9/27. DME/DME RNP-0.3 NA. For inoperative MALSR increase LNAV Cat A visibility to RVR 5000.

MALSR



MISSED APPROACH: Climb to 6200 direct NEXZI and right turn via track 005° to GEBTE and hold, continue climb-in-hold to 6200.

ATIS 125.25	CHINOOK APP CON★ 123.8 263.15	YAKIMA TOWER★ 133.25 (CTAF) 257.8	GND CON 121.9	CLNC DEL 121.9	UNICOM 122.95
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MIRL Rwy 4-22
HIRL Rwy 9-27 **1**
REIL Rwy 4, 9, and 22

CATEGORY	A	B	C	D
LNAV MDA	1880/40	812 (800-¾)	1880-2 812 (800-2)	1880-2¼ 812 (800-2¼)
CIRCLING	1880-1 781 (800-1)	1880-1¼ 781 (800-1¼)	1880-2½ 781 (800-2½)	1880-2¾ 781 (800-2¾)

WAAS CH 90512 W27A	APP CRS 274°	Rwy Idg TDZE Apt Elev	7604 1068 1099
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RNAV (GPS) Z RWY 27

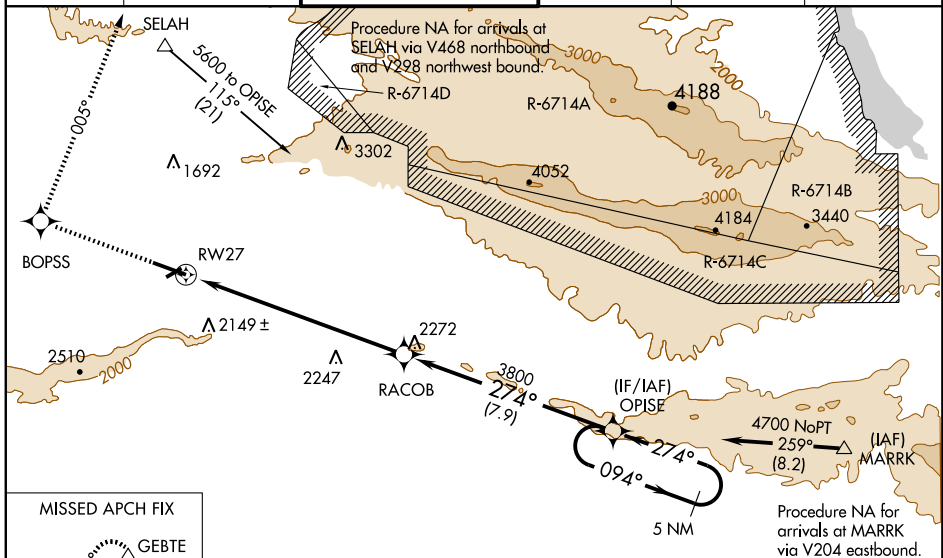
YAKIMA AIR TERMINAL/MCALLISTER FIELD (YKM)

⚠ When local altimeter setting not received, procedure NA.
⚠ Circling NA south of Rwy 9/27. DME/DME RNP-0.3 NA.
 For inoperative MALSR increase LPV all Cats visibility to
 RVR 5000. Circling requires descent on glidepath to CMDA.



MISSED APPROACH: Climb to 6200 direct
 BOPSS and right turn via track 005° to GEBTE
 and hold, continue climb-in-hold to 6200.

ATIS 125.25	CHINOOK APP CON ★ 123.8 263.15	YAKIMA TOWER ★ 133.25 (CTAF) 257.8	GND CON 121.9	CLNC DEL 121.9	UNICOM 122.95
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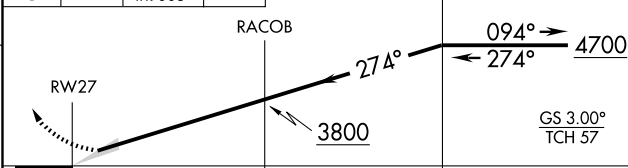
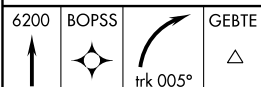
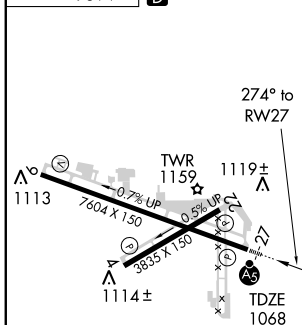


MISSED APCH FIX



ELEV 1099

D



MIRL Rwy 4-22
 HIRL Rwy 9-27
 REIL Rwy 4, 9, and 22

CATEGORY	A	B	C	D
LPV DA	1329/24 261 (300-½)			
CIRCLING	1640-1 541 (600-1)	1660-1 561 (600-1)	1700-1¾ 601 (700-1¾)	1800-2¼ 701 (800-2¼)

VORTAC YKM 116.0 Chan 107	APP CRS 251°	Rwy Idg TDZE Apt Elev N/A N/A 1099
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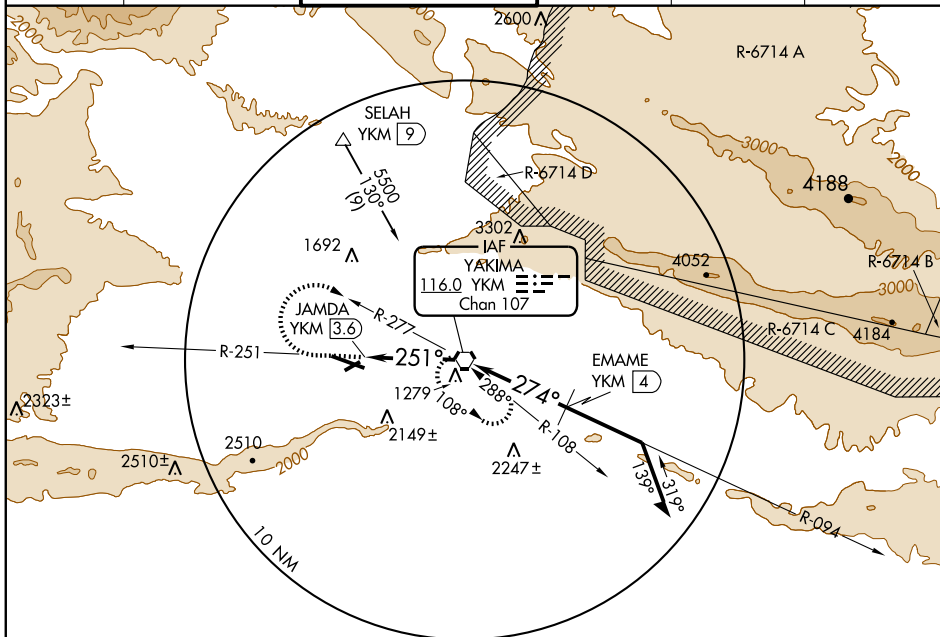
VOR-A

YAKIMA AIR TERMINAL/MCALLISTER FIELD (YKM)

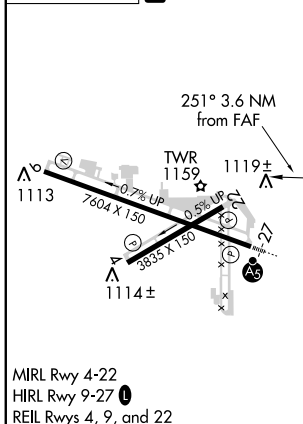
▼ DME required.
▲ Circling not authorized South of Rwy 9-27.
When local altimeter setting not received, procedure NA.

MISSED APPROACH: Climb to 2600 via YKM VORTAC R-251 then climbing right turn to 4600 via YKM VORTAC R-277 to YKM VORTAC and hold, continue climb-in-hold to 4600.

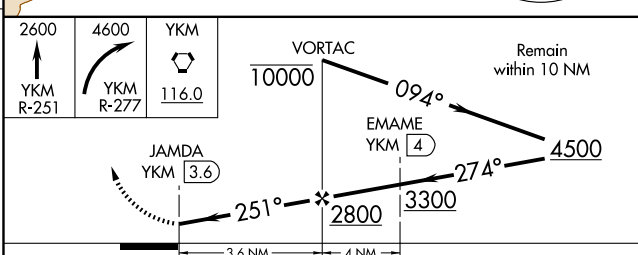
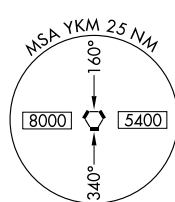
ATIS 125.25	CHINOOK APP CON★ 123.8 263.15	YAKIMA TOWER★ 133.25 (CTAF) 257.8	GND CON 121.9	CLNC DEL 121.9	UNICOM 122.95
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ELEV 1099	D
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MIRL Rwy 4-22
HIRL Rwy 9-27
REIL Rws 4, 9, and 22



FAF to MAP 3.6 NM						CATEGORY	A	B	C	D
Knots	60	90	120	150	180	CIRCLING	1840-1 741 (800-1)	1840-1¼ 741 (800-1¼)	1840-2¼ 741 (800-2¼)	1840-2½ 741 (800-2½)
Min:Sec	3:36	2:24	1:48	1:26	1:12					

VOR/DME or TACAN RWY 27
YAKIMA AIR TERMINAL/MCALLISTER FIELD (YKM)

MISSED APPROACH: Climb to 2600 via YKM VORTAC R-244, then climbing right turn to 4600 via YKM VORTAC R-276 to YKM VORTAC and hold, continue climb-in-hold to 4600 (TACAN aircraft, continue climb to 5000 via YKM VORTAC R-108 to SUNED/YKM 26 DME and hold west, right turns, 108° inbound).

[illegible]

MIRL Rwy 4-22
HIRL Rwy 9-27 **L**
REIL Rwy 4, 9, and 22

The diagram illustrates a sample RNAV chart. At the top left, three boxes provide station information: a YKM station at 2600 ft MSL (R-244), a YKM station at 4600 ft MSL (R-276), and a YKM station at 116.0 ft MSL. Below these, a TCH 57° is indicated. The main chart area shows a VORTAC station at 10000 ft MSL. A bearing of 094° leads from the VORTAC to a point labeled 'Remain within 10 NM'. Another bearing of 274° leads from the VORTAC to a point labeled 'EMAME YKM [4] 4400'. A third bearing of 244° leads from the VORTAC to a point labeled 'YKM [3.6] 2400'. A distance of 3.6 NM is marked between the VORTAC and the 2400 ft MSL point. A distance of 4 NM is marked between the 2400 ft MSL point and the EMAME YKM station. A note 'Remain within 10 NM' is present near the 094° bearing.

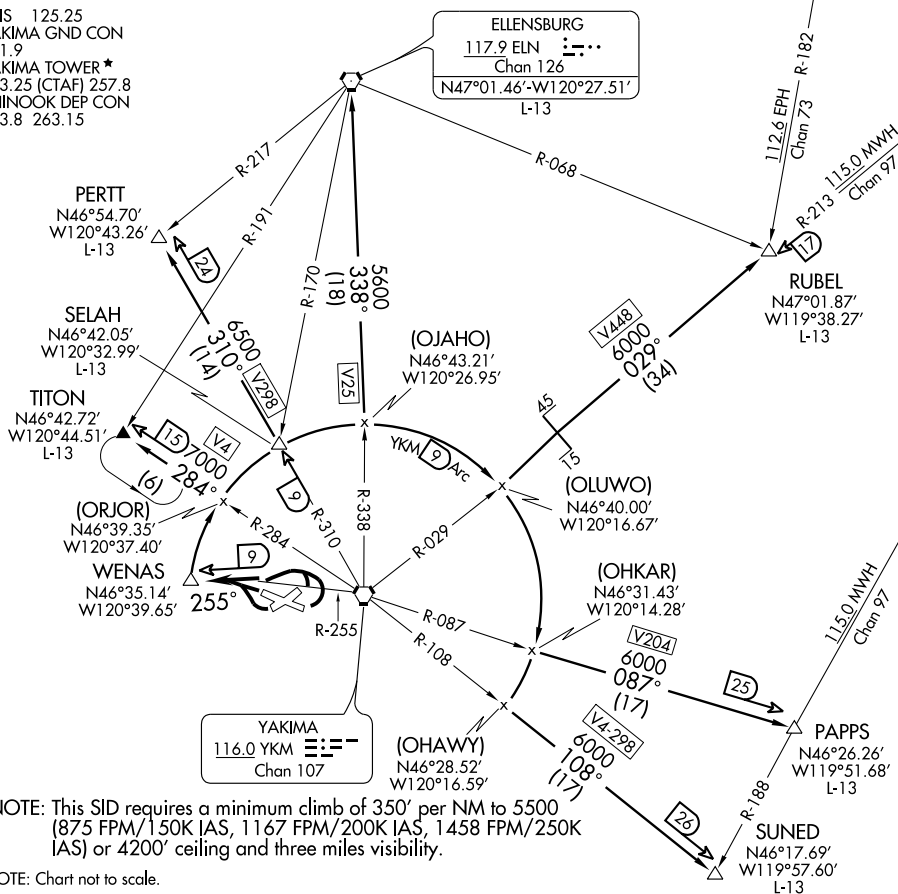
CATEGORY	A	B	C	D
S-27	2100/60 1032 (1100-1¼)	2100-1½ 1032 (1100-1½)	2100-3	1032 (1100-3)
CIRCLING	2100-1¼ 1001 (1100-1¼)	2100-1½ 1001 (1100-1½)	2100-3	1001 (1100-3)

WENAS FIVE DEPARTURE

YAKIMA AIR TERMINAL/MCALLISTER FIELD (YKM)
SL-465 (FAA)

YAKIMA, WASHINGTON

ATIS 125.25
YAKIMA GND CON
121.9
YAKIMA TOWER ★
133.25 (CTAF) 257.8
CHINOOK DEP CON
123.8 263.15



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 4, 9: Turn left thence...

TAKE-OFF RUNWAY 22: Turn right thence....

TAKE-OFF RUNWAY 27: Climb runway heading thence....

....Intercept and proceed via YKM R-255 to the WENAS DME Fix (YKM 255/9) thence via (assigned transition).

ELLENSBURG TRANSITION (WENAS5.ELN): From over WENAS DME Fix via 9 DME Arc and V25 to ELN VORTAC.

PAPP TRANSITION (WENAS5.PAPP): From over WENAS DME Fix via 9 DME Arc and V204 to PAPP INT.

PRTT TRANSITION (WENAS5.PRTT): From over WENAS DME Fix via 9 DME Arc and V298 to PRTT INT.

RUBEL TRANSITION (WENAS5.RUBEL): From over WENAS DME Fix via 9 DME Arc and V448 to RUBEL INT.

SELAH TRANSITION (WENAS5.SELAH): From over WENAS DME Fix via 9 DME Arc to SELAH INT.

SUNED TRANSITION (WENAS5.SUNED): From over WENAS DME Fix via 9 DME Arc and V4 to SUNED INT.

TITON TRANSITION (WENAS5.TITON): From over WENAS DME Fix via 9 DME Arc and V4 to TITON INT.


NOTE: Climb in holding pattern Southeast of TITON INT, left turns, 284° inbound to 7000 feet before proceeding on course.

YAKIMA FIVE DEPARTURE

YAKIMA AIR TERMINAL/MCALLISTER FIELD (YKM)
SL-465 (FAA)

YAKIMA, WASHINGTON

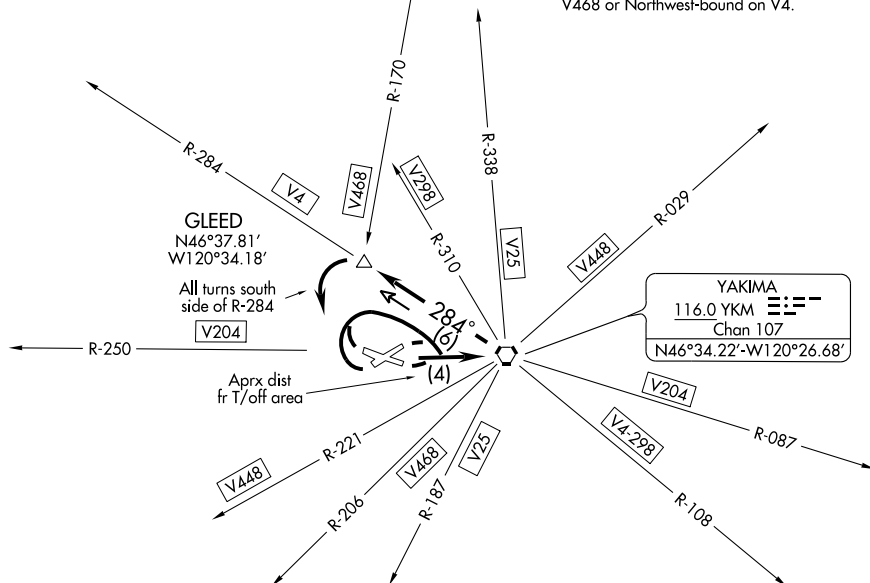
ATIS 125.25
YAKIMA GND CON
121.9
YAKIMA TOWER★
133.25 (CTAF) 257.8
CHINOOK DEP CON
123.8 263.15

ELLENSBURG
117.9 ELN 
Chan 126

NOTE: Minimum climb required:
Rwys 4 and 9 - 275'/NM to 1700
Rwy 22 - 350'/NM to 1700
Rwy 27 - 230'/NM to 2100

MINIMUM CROSSING ALTITUDES:

Eastbound on V4-298 2000'
Eastbound on V204 3000'
Northbound on V25 2800'
Northeast-bound on V448 3300'
Southbound on V25 4200'
Southwest-bound on V448 6800'
Southwest-bound on V468 2600'
Westbound on V204 3400'
Westbound on V468, V4 4100'
Northwest-bound on V298 2800'
Departures may be restricted to cross
GLEED INT at 5000' northbound on
V468 or Northwest-bound on V4.



NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 4, 22 or 27: Turn right, thence....

TAKE-OFF RUNWAY 9: Turn left, thence....

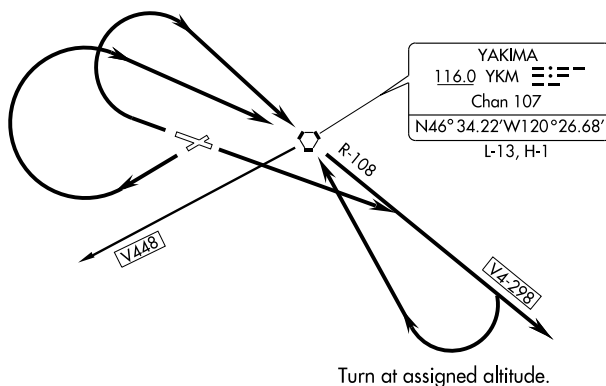
....Climb direct YKM VORTAC. Continue climb on YKM R-284 between the VORTAC and GLEED INT., all turns south of the 284 radial, to cross YKM VORTAC at or above (minimum crossing altitudes). Thence via (assigned route).

ATIS 125.25
 CLNC DEL
 121.9
 YAKIMA GND CON
 121.9
 YAKIMA TOWER ★
 133.25 (CTAF) 257.8
 CHINOOK DEP CON
 123.8 263.15

NOTE: TAKE-OFF MINIMUMS: Rwy 4 not authorized.

Rwy 9: 800-4 or standard with a minimum
 climb of 300' per NM to 5000'.

Rwys 22 and 27: 2500-3 or standard with minimum
 climb of 300' per NM to 5200'.



NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 9: Climb runway heading and outbound YKM R-108. Thence....

TAKE-OFF RUNWAYS 22 and 27: Climbing right turn direct YKM VORTAC and outbound R-108. Thence....

..... Eastbound aircraft V4-298 continue climb on course, other departures continue climb on YKM R-108 until reaching assigned altitude, (Southwestbound V448 continue minimum climb of 300' per NM to 9500'), then climbing right turn direct YKM VORTAC. All aircraft cross YKM VORTAC at or above MEA or MCA for route of flight.

INSTRUMENT APPROACH PROCEDURE CHARTS

A IFR ALTERNATE AIRPORT MINIMUMS

Standard alternate minimums for non precision approaches are 800-2 (NDB, VOR, LOC, TACAN, LDA, VORTAC, VOR/DME, ASR or WAAS LNAV); for precision approaches 600-2 (ILS or PAR). Airports within this geographical area that require alternate minimums other than standard or alternate minimums with restrictions are listed below. NA - means alternate minimums are not authorized due to unmonitored facility or absence of weather reporting service. Civil pilots see FAR 91. IFR Alternate Airport Minimums: Ceiling and Visibility Minimums not applicable to USA/USN/USAF. Pilots must review the IFR Alternate Airport Minimums Notes for alternate airfield suitability.

NAME ALTERNATE MINIMUMS

ALBANY, OR

ALBANY MUNI **VOR/DME or GPS-A**
NA except for operators with approved weather reporting service.

ARLINGTON, WA

ARLINGTON MUNI **NDB or GPS Rwy 34**
Category D, 800-2½.
NA when Paine Field control tower closed.

ASTORIA, OR

ASTORIA RGNL **RNAV (GPS) Rwy 26¹²**
VOR Rwy 8³

- ¹NA when local weather not available.
²Categories A, B, 900-2; Category C, 900-2½;
Category D, 900-3.
³Category C, 800-2½; Category D, 900-3.

AURORA, OR

AURORA STATE **LOC Rwy 17¹**
RNAV (GPS) Rwy 17²³
RNAV (GPS) Rwy 35²

- ¹Category D, 800-2½.
²NA when local weather not available.
³Categories A, B, 900-2; Category C, 900-2½;
Category D, 900-2½.

BAKER, MT

BAKER MUNI **NDB Rwy 13¹**
NDB Rwy 31²

- ¹Categories A,B, 1100-2; Categories C,D,
1100-3.
²Categories A,B, 1000-2; Category C, 1000-2½;
Category D, 1000-3.

BAKER CITY, OR

BAKER CITY MUNI **RNAV (GPS) Rwy 13¹²**
VOR-A¹³
VOR/DME Rwy 13²⁴

- ¹NA when local weather not available.
²Category D, 900-2½.
³Categories A,B, 1900-2; Categories C,D,
1900-3.
⁴NA when control zone not in effect.

NAME ALTERNATE MINIMUMS

BELLINGHAM, WA

BELLINGHAM INTL **ILS or LOC Rwy 16**
RNAV (GPS) Rwy 16
NA when local weather not available.

BIG PINEY, WY

MILEY MEMORIAL FIELD **VOR Rwy 31**
Category D, 800-2½.

BILLINGS, MT

BILLINGS LOGAN
INTL **NDB Rwy 10L¹**
RNAV (GPS) Rwy 10L²
RNAV (GPS) Rwy 28R³

- ¹Category D, 800-2½.
²Categories A,B,C,D, 800-2½.
³Categories A,B, 900-2; Categories C,D,
900-3.

BOISE, ID

BOISE AIR TERMINAL(GOWEN
FIELD) **LOC BC Rwy 28L**
RNAV (GPS) Y Rwy 10R
RNAV (GPS) Y Rwy 28L
VOR/DME or TACAN Rwy 10L
VOR/DME or TACAN Rwy 28L
Category E, 1000-3.

BOZEMAN, MT

GALLATIN FIELD **VOR Rwy 12**
Category C, 800-2½; Category D, 800-2½.

BREMERTON, WA

BREMERTON NATIONAL .. **RNAV (GPS) Rwy 1**
RNAV (GPS) Rwy 19¹
NA when local weather not available.

- ¹Categories A,B, 1200-2; Categories C,D,
1200-3.

NAME ALTERNATE MINIMUMS

BUFFALO, WY

JOHNSON COUNTY **RNAV (GPS) Rwy 31¹**
VOR/DME Rwy 31²

NA when local weather not available.

¹Category D, 800-2¼.

²Category C, 800-2¼; Category D, 800-2½.

BURLEY, ID

BURLEY MUNI **VOR-A**
VOR/DME-B

NA when local weather not received.

BURLINGTON/MOUNT VERNON, WA

SKAGIT RGNL **NDB Rwy 10¹**
RNAV (GPS) Rwy 10
RNAV (GPS) Rwy 28

NA when local weather not available.

¹Categories A,B, 1300-2; Categories C,D, 1300-3.

BURNS, OR

BURNS MUNI **VOR Rwy 30**
Categories A, B, 1400-2; Categories C,D, 1400-3.

BUTTE, MT

BERT MOONEY **ILS Y Rwy 15¹**
LOC/DME Rwy 15²
RNAV (GPS) Y Rwy 15³
RNAV (GPS) Z Rwy 15,1200-2
VOR or GPS-B,1400-3
VOR/DME or GPS-A,3000-3

¹Categories A, B, C, 1200-4.

²Categories A,B, 1300-2; Categories C,D, 1300-3.

³Categories A,B, 1500-2; Categories C,D, 1500-3.

CALDWELL, ID

CALDWELL
INDUSTRIAL **RNAV (GPS) Rwy 12**
RNAV (GPS) Rwy 30

NA when local weather not available.

CASPER, WY

CASPER/NATRONA
COUNTY INTL **ILS or LOC Rwy 3**
ILS, Categories A,B, 800-2; Category C 800-2½; Category D, 800-2¼; Category E, 900-3.
LOC, Category C, 800-2½; Category D, 800-2¾; Category E, 900-3.

NAME ALTERNATE MINIMUMS

CHEYENNE, WY

CHEYENNE RGNL/JERRY OLSON
FIELD **ILS or LOC Rwy 27¹**
NDB Rwy 27¹
RNAV (GPS) Rwy 9²
RNAV (GPS) Rwy 13²
RNAV (GPS) Rwy 31²

¹NA when control tower closed.

²NA when local weather not available.

CODY, WY

YELLOWSTONE
REGIONAL **RNAV (GPS) Rwy 22¹**
VOR or GPS-A²

¹Category C, 800-2¼; Category D, 200-2¾.

²Category D, 900-3.

COEUR D'ALENE, ID

COEUR D'ALENE-PAPPY
BOYINGTON FIELD **ILS or LOC/DME Rwy 5**
NDB Rwy 5
RNAV (GPS) Rwy 5
VOR Rwy 5
VOR/DME Rwy 1

NA when local weather not available.

CORVALLIS, OR

CORVALLIS MUNI **VOR-A**
Categories A,B,1200-2; Categories C,D, 1200-3.

DEER PARK, WA

DEER PARK **RNAV (GPS) Rwy 34**
NA when local weather not available.

DILLON, MT

DILLON **VOR or GPS-A,1500-3**
VOR/DME or GPS-B
NA when Dillon altimeter setting not available.

DOUGLAS, WY

CONVERSE COUNTY **VOR Rwy 29**
Categories A,B, 1100-2; Categories C,D, 1100-3. DME standard.

EASTSOUND, WA

ORCAS ISLAND **RNAV (GPS)-A**
Categories A, B, 1100-2.
NA when local weather not available.

ELLENSBURG, WA

BOWERS FIELD **RNAV (GPS) Rwy 25¹**
RNAV (GPS) Rwy 29
VOR-B²

NA when local weather not available.

¹Category D, 800-2¼.

²Category A, 1500-2.

NAME ALTERNATE MINIMUMS

EPHRATA, WA

EPHRATA MUNI **RNAV (GPS) Rwy 3¹**
RNAV (GPS) Rwy 21²
VOR/DME Rwy 3¹
VOR Rwy 21¹

NA when local weather not available.

¹Category D, 1300-3.

²Category C, 800-2¼; Category D, 1300-3.

EUGENE, OR

MAHLON-SWEET

FIELD **ILS or LOC/DME Z Rwy 16R¹**
ILS or LOC Y Rwy 16R¹
ILS or LOC/DME Rwy 16L¹²
RNAV (GPS) Rwy 34R²
VOR or GPS-A³

¹NA when control tower closed.

²NA when local weather not available.

³Categories A,B, 900-2; Category C, 900-2¼;
 Category D, 900-2¾.

EVANSTON, WY

EVANSTON-UINTA COUNTY

BURNS FIELD **ILS or LOC/DME Rwy 23**
 Categories C,D, 700-2.

EVERETT, WA

SNOHOMISH COUNTY(PAINE

FIELD) **ILS or LOC/DME Rwy 16R**
 NA when control tower closed.
 NA when local weather not available.

FORT BENTON, MT

FORT BENTON **RNAV (GPS) Rwy 23**
 NA when local weather not available.

GILLETTE, WY

GILLETTE-CAMPBELL

COUNTY **ILS or LOC Rwy 34¹²**
RNAV (GPS) Rwy 16³
RNAV (GPS) Rwy 34⁴
VOR/DME Rwy 16⁵
VOR/DME Rwy 34¹

¹Categories A,B, 900-2; Category C, 900-2¼;
 Category D, 1000-3.

²NA when control tower closed.

³Categories A,B,C, 800-2¼; Category D,
 1000-3.

⁴Categories A,B,C,D, 1200-4.

⁵Category C, 800-2¼; Category D, 1000-3.

GLASGOW, MT

WOKAL FIELD/

GLASGOW INTL **VOR Rwy 12**
 Categories A,B, 900-2; Categories C,D, 900-3.
 VOR/DME standard.

NAME ALTERNATE MINIMUMS

GLENDIVE, MT

DAWSON

COMMUNITY **NDB or GPS Rwy 12,900-2¼**

GOODING, ID

GOODING MUNI **RNAV (GPS) Rwy 7**
RNAV (GPS) Rwy 25

NA when local weather not available.

GRAY AAF (KGRF)

FORT LEWIS, WA **NDB Rwy 15**
NDB Rwy 33
ILS or LOC Rwy 15
COPTER NDB Rwy 15

NA when control tower closed.

GREAT FALLS, MT

GREAT FALLS INTL **NDB Rwy 34**
 Category D, 800-2¼.

GREYBULL, WY

SOUTH BIG HORN COUNTY **RNAV (GPS)-A**
RNAV (GPS) Rwy 33¹

NA when local weather not available.

¹Category D, 1200-3.

HAILEY, ID

FRIEDMAN

MEMORIAL **RNAV (GPS) W Rwy 31**
 Categories A,B, 1900-2; Category C, 1900-3.

HAVRE, MT

HAVRE CITY-COUNTY **VOR Rwy 26**
 Categories A, B, 900-2; Category C, 900-2¾;
 Category D, 900-3.

NAME ALTERNATE MINIMUMS

HELENA, MT

HELENA RGNL **ILS or LOC Y Rwy 27¹²**
ILS or LOC Z Rwy 27¹²
LOC/DME BC-C¹³
NDB-D¹⁴
RNAV (GPS) Y Rwy 9⁵
RNAV (GPS) Rwy 23⁶
RNAV (GPS) X Rwy 27⁵
RNAV (RNP) Z Rwy 9⁷
RNAV (RNP) Y Rwy 27⁷
RNAV (RNP) Z Rwy 27^{7,9}
VOR-A⁸
VOR/DME-B⁸

¹NA when control tower closed.

²Categories A, B, 1600-2; Categories C, D, E, 1600-3.

³Categories A, B, 1300-2; Categories C, D, 1300-3.

⁴Category A, 1200-2.

⁵Categories A, B, 1600-2; Categories C, D, 1600-3.

⁶Categories A, B, 900-2; Category C, 900-2½; Category D, 900-3.

⁷NA when local weather not available.

⁸Categories A, B, 2900-2; Categories C, D, 2900-3.

⁹1000-4.

HOQUIAM, WA

BOWERMAN **RNAV (GPS) Rwy 24¹**
VOR/DME Rwy 24²
VOR Rwy 6¹

¹Category D, 800-2¼.

²Categories A,B, 900-2; Category C, 900-2¾; Category D, 900-3.

IDAHO FALLS, ID

IDAHO FALLS RGNL **ILS or LOC Rwy 20¹**
LOC BC Rwy 2²
RNAV (GPS) Rwy 20³
VOR Rwy 20³

¹ILS, Category E, 700-2½. LOC, Category E, 800-2½.

²Category E, 800-2½.

³NA when local weather not available.

JACKSON, WY

JACKSON HOLE **RNAV (GPS) X Rwy 1¹**
RNAV (GPS) Y Rwy 19¹
RNAV (RNP) Y Rwy 1, 10681200-4
VOR/DME Rwy 1²
VOR/DME Rwy 19³

¹Categories A,B, 1200-2; Categories C,D, 1200-3.

²Categories A,B,1000-2; Categories C,D, 1000-3.

³Categories A,B,1400-2; Categories C,D, 1400-3.

NAME ALTERNATE MINIMUMS

JEROME, ID

JEROME COUNTY **RNAV (GPS) Rwy 9**
RNAV (GPS) Rwy 27¹
VOR/DME-A

NA when local weather not available.

¹Categories A, B, 1300-2; Categories C, D, 1300-3.

JOHN DAY, OR

GRANT COUNTY RGNL/
OGILVIE FIELD **RNAV (GPS) Y Rwy 9**
Category B, 900-2; Category C, 900-2½.

KALISPELL, MT

GLACIER PARK INTL **ILS or LOC Rwy 2¹**
RNAV (RNP) Y Rwy 2²
RNAV (RNP) Rwy 20, 800-2½²

¹Categories C, D, 700-2.

²NA when local weather not available.

KELSO, WA

SOUTHWEST
WASHINGTON RGNL **RNAV (GPS) Rwy 12**
Categories A, B, 900-2.

KLAMATH FALLS, OR

KLAMATH FALLS **ILS or LOC Rwy 32¹**
RNAV (GPS) Rwy 14²
VOR/DME or TACAN Rwy 14³
VOR/DME or TACAN Rwy 32⁴
VOR or GPS-B, 2100-3

¹Categories A,B, 900-2; Category C, 900-2¾; Category D, 1000-3. LOC, DME required.

²Categories A,B, 900-2; Category C, 900-2¾; Category D, 1000-3.

³Categories C,D, 1000-3; Category E, NA.

⁴Category B, 900-2; Categories C,D, 1000-3; Category E, 1500-3.

LAKEVIEW, OR

LAKE COUNTY **VOR/DME-A**
Categories A,B, 900-2; Category C, 900-2½; Category D, 900-2¾.

LEWISTON, ID

LEWISTON-NEZ PERCE
COUNTY **ILS Rwy 26¹²**
RNAV (GPS) Rwy 9³
RNAV (GPS) Rwy 12³
RNAV (GPS) Rwy 26³
VOR Rwy 8⁴
VOR Rwy 26³

¹ILS, Category D, 800-2¼.

²NA when control tower closed.

³Category D, 800-2¼.

⁴Categories A, B, 1100-2; Categories C, D, 1100-3.

NAME ALTERNATE MINIMUMS

LEWISTOWN, MT

LEWISTOWN MUNI RNAV (GPS) Rwy 7
VOR Rwy 7

Category D, 800-2½.

LIVINGSTON, MT

MISSION FIELD VOR/DME-B¹
VOR-A²

¹Categories A, B, 900-2; Category C, 900-2½;
Category D, 1000-3.

²Categories A, B, 2200-2; Categories C, D,
2200-3.

MC CALL, ID

MC CALL MUNI RNAV (GPS) Rwy 16¹
RNAV (GPS) Y Rwy 34²
RNAV (GPS) Z Rwy 34³⁴

¹Category C, 900-2½.

²Categories A, B, 1600-2; Categories C, D,
1600-3.

³NA when local weather not available.

⁴Category C, 900-2½; Category D, 1000-3.

MC MINNVILLE, OR

MC MINNVILLE MUNI ILS or LOC Rwy 22
RNAV (GPS) Rwy 4
RNAV (GPS) Rwy 22
VOR/DME-B

NA when local weather not available.

Category D 800-2½.

MEDFORD, OR

ROGUE VALLEY INTL-
MEDFORD ILS or LOC/DME Rwy 14¹²
LOC/DME BC-B²³
RNAV (GPS)-D³
RNAV (GPS) Rwy 14⁴
VOR-A⁵
VOR/DME-C³
VOR/DME Rwy 14⁵

¹ILS, Categories A, B, C, 700-2; Category D,
900-2½. LOC, Category D, 900-2½.

²NA when control tower closed.

³Categories A, B, 2300-2; Categories C, D,
2300-3.

⁴Categories A, B, 1100-2; Categories C, D,
1100-3.

⁵Categories A, B, 1400-2; Category C, D
1400-3.

NAME ALTERNATE MINIMUMS

MISSOULA, MT

MISSOULA INTL ILS Rwy 11¹
RNAV (GPS) Y Rwy 11²³
RNAV (RNP) Z Rwy 11²,800-2½
VOR/DME or GPS-A,2000-3
VOR/DME or GPS-B,2000-3

¹ILS, 1600-6. LOC,NA.

²NA when local weather not available.

³Categories A, B, 1900-2; Categories C, D,
1900-3.

MOSES LAKE, WA

GRANT COUNTY INTL ... ILS or LOC Rwy 32R¹
NDB Rwy 32R²
RNAV (GPS) Rwy 4¹
RNAV (GPS) Rwy 14L¹
RNAV (GPS) Rwy 22¹
VOR Rwy 4²
VOR -1 Rwy 14L²
VOR -3 Rwy 14L²
VOR Rwy 22²
VOR Rwy 32R²

¹NA when local weather not available.

²NA when control tower closed.

NEWCASTLE, WY

MONDELL FIELD VOR or GPS Rwy 31
NA except for operators with approved weather
reporting service.
Categories A,B, 900-2;Categories C,D, 900-3.

NORTH BEND, OR

SOUTHWEST OREGON
RGNL ILS or LOC Rwy 4¹
NDB or GPS Rwy 4²
VOR or GPS-A³
VOR/DME or GPS-B⁴
VOR/DME Rwy 4⁴

¹ILS,Categories A,B, 800-2; Category C, 900-
2½, Category D,1000-3. LOC, Category C,
900-2½, Category D,1000-3.

²Category C, 900-2½;Category D, 1000-3.

³Categories A,B, 1100-2; Categories C,D,
1100-3.

⁴Categories C,D, 1000-3.

OAK HARBOR, WA

AJ EISENBERG RNAV (GPS) Rwy 7
NA when local weather not available.

OLYMPIA, WA

OLYMPIA RGNL ILS or LOC Rwy 17¹²³
RNAV (GPS) Rwy 17²
RNAV (GPS) Rwy 35²
VOR-A²⁴
VOR/DME Rwy 35²

¹ILS, Categories C, D, 700-2.

²NA when local weather not available.



NAME ALTERNATE MINIMUMS
ONTARIO, OR
 ONTARIO MUNI RNAV (GPS) Rwy 14
 RNAV (GPS) Rwy 32
 NA when local weather not available.

PASCO, WA
 TRI-CITIES ILS or LOC Rwy 21R¹²
 RNAV (GPS) Rwy 3L
 RNAV (GPS) Rwy 12
 RNAV (GPS) Rwy 21R
 RNAV (GPS) Rwy 30
 VOR Rwy 21R³
 VOR/DME Rwy 30
 NA when local weather not available.

- ¹NA when control tower closed.
²ILS, Categories A,B,C, 700-2; Category D, 700-2½. LOC, Category D, 800-2½.
³Category D, 800-2½.

PENDLETON, OR
 EASTERN OREGON RGNL AT
 PENDLETON ILS or LOC/DME Rwy 25¹
 RNAV (GPS) Rwy 7
 RNAV (GPS) Rwy 11
 RNAV (GPS) Rwy 25
 RNAV (GPS) Rwy 29
 VOR Rwy 7
 NA when local weather not available.
¹ILS, NA when control tower closed.

PINEDALE, WY
 PINEDALE/RALPH WENZ
 FIELD NDB-A¹
 RNAV (GPS) Rwy 11²
 RNAV (GPS) Rwy 29²
 NA when local weather not available.
¹Category C, 800-2½; Category D, 800-2½.
²Category D, 800-2½.

POCATELLO, ID
 POCATELLO RGNL ILS or LOC Rwy 21¹
 RNAV (GPS) Rwy 3²
 RNAV (GPS) Rwy 21²
¹NA when control zone not in effect.
²NA when local weather not available.

PORT ANGELES, WA
 WILLIAM R
 FAIRCHILD INTL ILS or LOC Rwy 8
 RNAV (GPS) Rwy 8¹
 RNAV (GPS) Rwy 26
 NA when local weather not available.
¹Categories A, B, 1000-2; Categories C, D, 1000-3.

NAME ALTERNATE MINIMUMS
PORTLAND, OR
 PORTLAND INTL ILS or LOC Rwy 10L¹
 ILS or LOC Rwy 10R²
 ILS or LOC Rwy 28L³
 ILS or LOC Rwy 28R⁴
 LOC/DME Rwy 21⁵
 RNAV (GPS) Rwy 10L⁵
 RNAV (GPS) Rwy 10R⁶
 RNAV (GPS) Rwy 12⁷
 RNAV (GPS) Rwy 28L⁸
 RNAV (GPS) Rwy 28R⁹
 VOR/DME Rwy 21⁵
 VOR-A⁹
 VOR Rwy 28R⁵

- ¹ILS, Category A, 700-2; Categories B,C, 800-2; Category D, 1000-3. LOC, Category D, 1000-3.
²Categories A,B, 900-2; Category C, 900-2½; Category D, 1000-3; Category E, 1100-3.
³ILS, Category A, 700-2; Categories B,C, 800-2; Category D, 1000-3; Category E, 1100-3. LOC, Category D, 1000-3; Category E, 1100-3.
⁴ILS, Category A, 700-2; Categories B,C, 800-2; Category D, 1000-3. LOC, Category D, 1000-3.
⁵Category D, 1000-3.
⁶Categories A,B,C 800-5; Category D, 1000-5.
⁷NA when local weather not available.
⁸Category D, 1000-3.
⁹Categories A,B, 900-2; Category C, 900-2½; Category D, 1000-3.

PORTLAND-HILLSBORO .. ILS or LOC Rwy 12¹
 RNAV (GPS) Rwy 12²
¹Categories A,B, 1000-2; Category C, 1000-2½; Category D, 1000-3.
²NA when local weather not available.

PORTLAND-TROUTDALE NDB or GPS-A
 Categories A,B, 1100-2; Category C, 1100-3; Category D, 1300-3.

PULLMAN/MOSCOW, WA
 PULLMAN/MOSCOW
 MUNI RNAV (GPS) Rwy 5,800-2½

RAWLINS, WY
 RAWLINS MUNI/
 HARVEY FIELD RNAV (GPS) Rwy 22¹
 VOR/DME Rwy 22²
¹Categories A, B, 900-2; Category C, 900-2½; Category D, 900-2½.
²Categories A, B, 1000-2; Category C, 1000-2½; Category D, 1000-3.

NAME ALTERNATE MINIMUMS

REDMOND, OR

ROBERTS FIELD **ILS or LOC Rwy 22¹**
VOR/DME Rwy 22²

¹ILS, LOC, Category D, 800-2½; Category E, 800-2½.

²Category A, B, 1000-2; Category C, 1000-2¾; Category D, E, 1000-3.

RENTON, WA

RENTON MUNI **NDB Rwy 16¹**
RNAV (GPS) Y Rwy 16²
RNAV (GPS) Z Rwy 16³

NA when local weather not available.

¹Categories A, B, 1000-2; Categories C, D, 1000-3.

²Categories A, B, 900-2; Category C, 900-2¾; Category D, 900-3.

³Categories A, B, 900-2.

REXBURG, ID

REXBURG-MADISON
COUNTY **RNAV (GPS) Rwy 35**
NA when local weather not available.
Category D, 800-2½.

RICHLAND, WA

RICHLAND **NDB Rwy 19¹**
RNAV (GPS) Rwy 19¹
RNAV (GPS) Rwy 26¹
VOR/DME-A²
VOR Rwy 26¹

¹Category D, 800-2½.

²Categories A, B, 900-2; Category C, 900-2¾; Category D, 900-3.

RIVERTON, WY

RIVERTON RGNL **ILS or LOC Rwy 28**
RNAV (GPS) Rwy 10
RNAV (GPS) Rwy 28
VOR Rwy 10
VOR Rwy 28

NA when local weather not available.

ROCK SPRINGS, WY

ROCK SPRINGS-SWEETWATER
COUNTY **VOR-B**
Category D, 800-2½.

ROSEBURG, OR

ROSEBURG RGNL **RNAV (GPS)-B**
NA when local weather not available.
Categories A, B, 1200-2; Category C, 1200-3;
Category D, 1400-3.

NAME ALTERNATE MINIMUMS

SALEM, OR

MCNARY FIELD **ILS or LOC Rwy 31¹²**
LOC/DME Rwy 31³
RNAV (GPS) Rwy 31¹³

¹NA when local weather not available.

²ILS, Categories A, B, 800-2; Category C, 800-2½; Category D, 800-2½. LOC, Category C, 800-2½; Category D, 800-2½.

³Category D, 800-2½.

SCAPPOOSE, OR

SCAPPOOSE INDUSTRIAL
AIRPARK **VOR/DME or GPS-A**
Category B, 900-2; Category C, 1000-2¾;
Category D 1300-3.

SEATTLE, WA

BOEING FIELD-KING COUNTY
INTL **ILS Rwy 13R¹**
ILS Rwy 31L²
LOC/DME Rwy 13R³
RNAV (GPS) Y Rwy 13R⁴
RNAV (RNP) Z Rwy 13R⁵

¹ILS, Category A, 800-2; Category B, 900-2; Category C, 900-2½; Category D, 1000-3.

²Category A, 800-2; Category B, 900-2; Category C, 900-2½; Category D, 1000-3.

³Category B, 900-2; Category C, 900-2½; Category D, 1000-3.

⁴Category B, 900-2; Category C, 900-2¾; Category D, 1000-3.

⁵Categories A, B, C, D, 800-2½.

SHERIDAN, WY

SHERIDAN
COUNTY **ILS or LOC/DME Rwy 32**
RNAV (GPS) Rwy 14
RNAV (GPS) Rwy 32
VOR Rwy 14

NA when local weather not received.
Category D, 800-2½.

SIDNEY, MT

SIDNEY-RICHLAND MUNI **NDB Rwy 1¹**
NDB Rwy 19²

¹Category D, 800-2½.

²Categories C, D, 800-2½.

NAME ALTERNATE MINIMUMS

SPOKANE, WA

FELTS FIELD **ILS/DME Rwy 21R¹**
RNAV (GPS)-A²
RNAV (GPS) Rwy 3L²
VOR Rwy 3L^{3,4}

- ¹Categories A,B, 1000-2; Category C, 1000-2½.
²Categories A,B, 1000-2; Category C, 1000-2½; Category D, 1000-3.
³Categories A, B, 1000-2; Categories C, D, 1000-3.
⁴NA when local weather not available.

SPOKANE INTL **ILS or LOC Rwy 3¹**
ILS or LOC/DME Rwy 21¹
VOR Rwy 3²

- ¹ILS, Category D, 700-2.
²Category E, 800-2½.

TACOMA, WA

TACOMA NARROWS **ILS Rwy 17¹**
NDB Rwy 35¹
RNAV (GPS) Rwy 17^{1,2}
RNAV (GPS) Rwy 35^{2,3}

- ¹NA when control tower closed.
²Category D, 800-2½.
³NA when local weather not available.

THE DALLES, OR

COLUMBIA GEORGE RGNL/
THE DALLES MUNI **RNAV (GPS)-A**
Categories A,B, 1100-2; Category C, 1100-3;
Category D, 1200-3.

TWIN FALLS, ID

JOSLIN FIELD-MAGIC VALLEY
RGNL **ILS or LOC Rwy 25¹**
NDB Rwy 25
RNAV (GPS) Rwy 7
RNAV (GPS) Rwy 25
VOR Rwy 7²

- NA when local weather not available.
¹ILS, Category D, 700-2; Category E, 900-3.
LOC, Category E, 900-3.
²Category C, 800-2½; Category D, 800-2½.

WALLA WALLA, WA

WALLA WALLA RGNL **ILS or LOC Rwy 20¹**
NDB Rwy 20, 1000-3
RNAV (GPS) Rwy 2^{2,3}
RNAV (GPS) Rwy 16²
RNAV (GPS) Rwy 20²
VOR/DME Rwy 2²

- ¹ILS, LOC, Categories A,B, 1100-2; Categories C, D, 1100-3.
²Category D, 800-2½.
³NA when local weather not available.

NAME ALTERNATE MINIMUMS

WENATCHEE, WA

PANGBORN
MEMORIAL **ILS Y Rwy 12, 1300-4**
VOR/DME-C^{1,2}
VOR/DME-A³

- ¹NA when local weather not available.
²Categories A, B, 1500-2; Categories C, D, 1500-3.
³Categories A, B, 2000-2; Categories C, D, 2000-3.

WOLF POINT, MT

L.M. CLAYTON **RNAV (GPS) Rwy 11**
RNAV (GPS) Rwy 29
NA when local weather not available.

WORLAND, WY

WORLAND MUNI **VOR or GPS Rwy 16**
Categories C,D, 800-2½.

YAKIMA, WA

YAKIMA AIR TERMINAL/
MCALLISTER FIELD **ILS Y Rwy 27^{1,2}**
ILS Z Rwy 27^{1,3}
LOC/DME BC-B^{1,4}
RNAV (GPS) Y Rwy 27⁵
RNAV (GPS) Z Rwy 27⁴
VOR/DME or TACAN Rwy 27⁶
VOR-A⁷

- ¹NA when control tower closed.
²ILS, Categories A, B, 600-2½; Category C, 700-2½; Category D, 800-2½.
³Category C, 700-2; Category D, 800-2½
⁴Category D, 800-2½.
⁵Category C, 800-2½; Category D, 800-2½.
⁶Categories A, B, 1100-2; Categories C, D, 1100-3.
⁷Category C, 800-2½; Category D, 800-2½.

RADAR INSTRUMENT APPROACH MINIMUMS

CHEYENNE, WY

Amdt 1B, MAY 8, 2008 (FAA)

ELEV 6159

CHEYENNE RGNL/JERRY OLSON FIELD



RADAR - 124.55 263.075   NA

				DA/ MDA-VIS	HAT/ HATH/ HAA CEIL-VIS		DA/ MDA-VIS	HAT/ HATH/ HAA CEIL-VIS
PAR	27	3.0°/55/918	ABCDE	6321/24	200 (200-½)			
ASR	9		ABC	6500-1	357 (400-1)	DE	6500-1¼	357 (400-1¼)
	27		ABC	6520/24	399 (400-½)	DE	6520/50	399 (400-1)
CIR	ALL		AB	6660-1	501 (600-1)	C	6660-1½	501 (600-1½)
			D	6720-2	561 (600-2)	E	6960-2¾	801 (900-2¾)

For inoperative MALSR increase, PAR 27 category E visibility to RVR 4000, ASR 27 category D visibility to RVR 6000 and ASR 27 category E visibility to 1½. PAR not available when ASR out of service.

GRAY AAF (KGRF), FORT LEWIS, WA (Amdt 1 10098 USA)

ELEV 300

RADAR - (E) 128.2 139.925 239.0 317.4   NA

	<u>RWY</u>	<u>GS/TCH/RPI</u>	<u>CAT</u>	DH/ <u>MDA-VIS</u>	HAT/ HATH/ <u>HAA</u>	<u>CEIL-VIS</u>
PAR ¹³	15	3.0°/55/853	ABCD	499/24	200	(200-½)
	33 ²	3.0°/39/730	ABCD	500-½	200	(200-½)

¹Opr Mon-Fri 1600-0759Z++, exc federal holidays. POC DSN 357-4953 or C253-967-4953. Svc incl PAR and apch mnt of ILS and NDB. ²PAR not authorized when R6703D is active. ³Circling not authorized.

OPS 138.6

Contact Seattle approach for vectors to Final on 120.1 290.9

Missed Approach:

Rwy 15: Climb to 1000, then climbing left turn to 2000 via heading 270° for RADAR vectors; or when directed by ATC, climb to 1000, then climbing left turn to 2000 direct GRF NDB and hold NW, RT, 147° inbound (ADF REQUIRED).

Rwy 33: Climb to 1000, then climbing left turn to 2000 via heading 270° for RADAR vectors; or when directed by ATC, climb to 2000 direct GRF NDB and hold NW, RT, 147° inbound (ADF REQUIRED). LOST COMMUNICATIONS (ALL RWYS): As directed by ATC on initial contact.

RADAR INSTRUMENT APPROACH MINIMUMS**OAK HARBOR (OKH), WA**

Amdt 1A, Mar 12, 2009 (FAA)

ELEV 193**A J EISENBERG****RADAR - 118.2 285.65 ▽ ▲ NA**

	<u>RWY</u>	<u>GS/TCH/RPI</u>	<u>CAT</u>	<u>DA/ MDA-VIS</u>	<u>HAT/ HATH/ HAA</u>	<u>CEIL-VIS</u>
ASR	7		AB CD	620-1 NA	427	(500-1)
CIR	All Rwy		A B CD	620-1 660-1 NA	427 467	(500-1) (500-1)

When local altimeter setting not received, use Whidbey Island NAS altimeter setting and increase all MDAs 40 feet. Circling north of Rwy 7-25 NA at night. Visibility reduction by helicopters NA.

RADAR INSTRUMENT APPROACH MINIMUMS

WHIDBEY ISLAND NAS (KNUW), (AULT FLD) WA (09071 USN)

ELEV 47

RADAR - (E) 126.05x 126.85x 266.8x 299.6x 310.8x 322.5x 327.0x 343.75x ▽

	<u>RWY</u>	<u>GS/TCH/RPI</u>	<u>CAT</u>	<u>DH/ MDA-VIS</u>	<u>HAT/ HATH/ HAA</u>	<u>CEIL-VIS</u>
PAR ¹	25 ^{2 3 10}	3.0°/40/718	ABCDE	228-½	200	(200-½)
	14 ^{5 11}	3.0°/49/947	ABCDE	139-¼	100	(100-¼)
	7	3.0°/50/961	ABCDE	125-½	100	(100-½)
	32 ^{2 10}	3.0°/34/776	ABCDE	147-¼	100	(100-¼)
W/O GS	25 ^{3 6}		ABC	480-¾	452	(500-¾)
			DE	480-1	452	(500-1)
	14 ^{7 11}		AB	340-½	301	(300-½)
			CDE	340-¾	301	(300-¾)
	7		ABCDE	300-1	275	(300-1)
	32 ^{8 10}		ABC	500-¾	453	(500-¾)
			DE	500-1	453	(500-1)
ASR	7		AB	440-1	415	(400-1)
			CD	440-1¼	415	(400-1¼)
			E	440-1½	415	(400-1½)
	14 ^{4 11}		AB	600-½	561	(600-½)
			C	600-1	561	(600-1)
			D	600-1¼	561	(600-1¼)
			E	600-1½	561	(600-1½)
	32 ^{8 11}		AB	680-½	633	(700-½)
			C	680-1¼	633	(700-1¼)
			D	680-1½	633	(700-1½)
			E	680-1¾	633	(700-1¾)
	25 ⁴		AB	760-½	732	(800-½)
			C	760-1½	732	(800-1½)
			D	760-1¾	732	(800-1¾)
			E	760-2	732	(800-2)
CIR ⁹			A	780-1	733	(800-1)
			B	800-1¼	753	(800-1¼)
			C	800-2¼	753	(800-2¼)
			D	860-2¾	813	(900-2¾)
			E	1100-3	1053	(1100-3)

¹No-NOTAM MP: PAR 1600-0800Z++ Mon. ²When ALS inop, increase vis CAT ABCDE to ¾ mile.

³Caution: Trees 265' MSL, 3270' from THLD, 1647' right of RCL. ⁴When ALS inop, increase vis CAT AB to 1 mile, CAT C to 1¼ miles, CAT D to 2 miles, CAT E to 2¼ miles. ⁵When ALS inop, increase CAT ABCDE vis to ½ mile. ⁶When ALS inop, increase vis CAT ABC to 1¼ miles, CAT DE to 1½ miles. ⁷When ALS inop, increase vis CAT ABCDE to 1 mile. ⁸When ALS inop, increase vis CAT ABC to 1¼ mile, CAT DE to 1½ mile. ⁹When CIRCLING to RWY 25 or 32, increase vis CAT A to 1¼ mile. ¹⁰Amdt 2. ¹¹Amdt 1.

INSTRUMENT APPROACH PROCEDURE CHARTS

IFR TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

Civil Airports and Selected Military Airports

ALL USERS: Airports that have Departure Procedures (DPs) designed specifically to assist pilots in avoiding obstacles during the climb to the minimum enroute altitude, and/or airports that have civil IFR take-off minimums other than standard, are listed below. Take-off Minimums and Departure Procedures apply to all runways unless otherwise specified. Altitudes, unless otherwise indicated, are minimum altitudes in MSL.

DPs specifically designed for obstacle avoidance are referred to as Obstacle Departure Procedures (ODPs) and are described below in text, or published separately as a graphic procedure. If the (Obstacle) DP is published as a graphic procedure, its name will be listed below, and it can be found in either this volume (civil), or a separate Departure Procedure volume (military), as appropriate. Users will recognize graphic obstacle DPs by the term "(OBSTACLE)" included in the procedure title; e.g., TETON TWO (OBSTACLE). If not assigned a SID or radar vector by ATC, an ODP may be flown without ATC clearance to ensure obstacle clearance.

Graphic DPs designed by ATC to standardize traffic flows, ensure aircraft separation and enhance capacity are referred to as "Standard Instrument Departures (SIDs)". SIDs also provide obstacle clearance and are published under the appropriate airport section. ATC clearance must be received prior to flying a SID.

CIVIL USERS NOTE: Title 14 Code of Federal Regulations Part 91 prescribes standard take-off rules and establishes take-off minimums for certain operators as follows: (1) Aircraft having two engines or less - one statute mile. (2) Aircraft having more than two engines - one-half statute mile. These standard minima apply in the absence of any different minima listed below.

MILITARY USERS NOTE: Civil (nonstandard) take-off minima are published below. For military take-off minima, refer to appropriate service directives.

NAME TAKE-OFF MINIMUMS

AFTON, WY

AFTON MUNI

DEPARTURE PROCEDURE: **Rwy 16**, Use LUNDI DEPARTURE. **Rwy 34**, use AFTON DEPARTURE.

ALBANY, OR

ALBANY MUNI

DEPARTURE PROCEDURE: **Rwy 16**, turn right. **Rwy 34**, turn left. All aircraft climb direct CVO VOR/DME and continue climb in CVO VOR/DME holding pattern, (E, right turns, 261° inbound) to cross CVO VOR/DME at or above 3000.

ANACONDA, MT

BOWMAN FIELD

TAKE-OFF MINIMUMS: **Rwy 4**, std. w/min. climb of 417' per NM to 9000, or 2800-3 for climb in visual conditions. **Rwy 17**, std. w/min. climb of 321' per NM to 10200, or 2800-3 for climb in visual conditions. **Rwy 22**, NA-obstacles. **Rwy 35**, std. w/min. climb of 369' per NM to 9100, or 2800-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 4, 35**, climbing right turn to 10200 via heading 130° and CPN VOR/DME R-340 to CPN VOR/DME, continue climb-in-hold to 10200 (north, left turn, 166° inbound), or for climb in visual conditions, cross Bowman Field Airport at or above 7700 then proceed via CPN R-309 to CPN VOR/DME, continue climb-in-hold to 10200 (north, left turn, 166° inbound).

NAME TAKE-OFF MINIMUMS

BOWMAN FIELD(CON'T)

Rwy 17, climbing left turn to 10200 via heading 100° and CPN VOR/DME R-335 to CPN VOR/DME, continue climb-in-hold to 10200 (north, left turn, 166° inbound), or for climb in visual conditions, cross Bowman Field Airport at or above 7700 then proceed via CPN R-309 to CPN VOR/DME, continue climb-in-hold to 10200 (north, left turn, 166° inbound).

NOTE: **Rwy 17**, multiple trees beginning 865' from departure end of runway, 243' left of centerline, up to 70' AGL/5097' MSL. Rod on hangar 570' from departure end of runway, 278' left of centerline, 54' AGL/5054' MSL. Multiple trees beginning 787' from departure end of runway, 165' right of centerline, up to 70' AGL/5098' MSL. Multiple transmission lines beginning 4602' from departure end of runway, 1664' right of centerline, 80' AGL/5159' MSL. **Rwy 35**, multiple transmission lines beginning 2242' from departure end of runway, 964' left of centerline, up to 80' AGL/5159' MSL.

ARCO, ID

ARCO-BUTTE COUNTY (AOC)

AMDT 1 08157 (FAA)

TAKE-OFF MINIMUMS: **Rwy 6**, NA - Obstacles. DEPARTURE PROCEDURE: Use JATTS DEPARTURE.

ARLINGTON, WA**ARLINGTON MUNI**

TAKE-OFF MINIMUMS: **Rwy 11**, 600-2 or std. with a min. climb of 350' per NM to 700. **Rwy 34**, 500-2 or std. with a min. climb of 260' per NM to 700.

DEPARTURE PROCEDURE: **Rwy 11**, turn right.

Rwy 16, climb direct to WATON LOM. **Rwys 29, 34**, turn left. **All aircraft** climb direct to WATON LOM. Aircraft departing WATON LOM on bearings 150° CW 200° and bearings 260° CW 340° from WATON LOM continue climb on course. Aircraft departing WATON LOM on bearings 340° CW 150° from WATON LOM climb in holding pattern (S, left turns, 339° inbound) to 4500 then continue climb on course. Aircraft departing WATON LOM on bearings 200° CW 260° from WATON LOM climb in holding pattern (S, left turns, 339° inbound) to 1500 then continue climb on course.

ASTORIA, OR**ASTORIA RGNL**

TAKE-OFF MINIMUMS: **Rwy 8**, 800-3 or std. with a min. climb of 320' per NM to 900. **Rwy 13**, 700-2 or std. with a min. climb of 350' per NM to 800.

DEPARTURE PROCEDURE: **Rwys 8, 31**, turn left.

Rwy 13, climb runway heading to 800 then climbing right turn. **Rwy 26**, turn right. Aircraft departing northwestbound climb via AST R-290 on course.

All other aircraft climb to 1500 or above via AST R-290 then left turn to AST VOR/DME and continue climbing on course.

AUBURN, WA**AUBURN MUNI**

DEPARTURE PROCEDURE: Use AUBURN DEPARTURE.

AURORA, OR**AURORA STATE**

DEPARTURE PROCEDURE: **Rwy 17**, turn right,

thence... **Rwy 35**, turn left, thence...

...Aircraft proceeding via V23 climb on course; All others climb in UBG VOR/DME holding pattern (hold south, left turn, 003° inbound) to cross UBG VOR/DME at or above MEA/MCA for direction of flight.

NOTE: **Rwy 17**, multiple trees 31' from departure end of runway, 273' right of centerline, up to 90' AGL/270' MSL.

Multiple trees beginning 979' from departure end of runway, 247' right of centerline up to 113' AGL/316' MSL. Road 254' from departure end of runway, 350' left of centerline, 16' AGL/209' MSL. **Rwy 35**, multiple trees and road beginning 31' from departure end of runway,

163' left of centerline, up to 138' AGL/329' MSL. Multiple trees beginning 973' from departure end of runway, 281' right of centerline, up to 58' AGL/253' MSL.

BAKER, MT**BAKER MUNI**

NOTE: **Rwy 13**, 51' derrick 2200' from departure end of runway on centerline. 100' trees south of airport, near runway, various locations. **Rwy 31**, 146' antenna on tower 4000' from departure end of runway, 1800' left of centerline. 114' rod on OL antenna 3800' from departure end of runway on centerline.

BAKER CITY, OR**BAKER CITY MUNI**

TAKE-OFF MINIMUMS: **Rwy 8**, 900-2 or std. with a min. climb of 315' per NM to 6000, (788' per min. at 150K, 1050' per min. at 200K, 1313' per min. at 250K).

Rwy 13, 1400-2 or std. with a min. climb of 310' per NM to 6000 (775' per min. at 150K, 1033' per min. at 200K, 1292' per min. at 250K). **Rwy 17, NA. Rwy 31**, 1300-2 or std. with a min. climb of 240' per NM to 6000 (600' per min. at 150K, 800' per min. at 200K, 1000' per min. at 250K). **Rwy 35**, CAT C, D 1000-2; or std. with a min. climb of 240' per NM to 6000 (600' per min. at 150K, 800' per min. at 200K, 1000' per min. at 250K).

DEPARTURE PROCEDURE: **Rwys 8, 13**, turn left.

Rwys 26, 31, 35, turn right. **All aircraft** climb direct BKE VOR/DME. Continue climb in BKE holding pattern (SE, right turns, 298° inbound) to cross BKE VOR/DME at or above MCA or MEA for route of flight.

BELLINGHAM, WA**BELLINGHAM INTL**

DEPARTURE PROCEDURE: **Rwy 16**, climb heading 160° to 600, then climbing right turn direct HUH VORTAC. Do not exceed 210 KIAS until established northbound. **Rwy 34**, climb heading 340° to 600, then climbing left turn to intercept HUH R-145 to HUH VORTAC, continue climb in holding pattern (northwest, right turn, 149° inbound) to MEA as appropriate for direction of flight.

NOTE: **Rwy 16**, lighted windsock 9' from departure end of runway, 259' right of centerline, 16' AGL/181' MSL.

Multiple trees beginning 747' from departure end of runway, 405' right of centerline, up to 68' AGL/213' MSL.

Multiple trees beginning 1128' from departure end of runway, 57' left of centerline, up to 104' AGL/249' MSL.

Rwy 34, lighted windsock 93' from departure end of runway, 516' right of centerline, 27' AGL/169' MSL. Multiple trees beginning 1372' from departure end of runway, 619' right of centerline, up to 134' AGL/246' MSL.

BEND, OR**BEND MUNI (BDN)****AMDT 4 09183 (FAA)**

DEPARTURE PROCEDURE: Use BEND DEPARTURE.

BIG PINEY, WY**MILEY MEMORIAL FIELD**

TAKE-OFF MINIMUMS: **Rwys 8, 26**, NA.

DEPARTURE PROCEDURE: **Rwy 13**, climb to 8400 via BPI R-124. **Rwy 31**, climb to 10800 via BPI R-320 thence all aircraft climb on course.

BILLINGS, MT

BILLINGS LOGAN INTL (BIL)

AMDT 5 08101 (FAA)

TAKE-OFF MINIMUMS: **Rwy 10R**, NA- Obstacles.DEPARTURE PROCEDURE: **Rwy 10L**, Climb heading 098° to 4600 before turning right.

NOTE: **Rwy 10L**, fence 466' from departure end of runway, 535' right of centerline, 11' AGL/3511' MSL, cars on road, beginning from 624' from departure end of runway, 427' right of centerline, 15' AGL/3523' MSL, ground beginning 21' from departure end of runway, 499' right of centerline, 0' AGL/3505' MSL. **Rwy 25**, airport security fence, abeam departure end of runway, 500' left of centerline, 11' AGL/3672' MSL to 1200' from departure end of runway, abeam rwy centerline, 11' AGL/3672' MSL.

BLACKFOOT, ID

MCCARLEY FIELD

DEPARTURE PROCEDURE: **Rwy 1**, climb to 7000 (or higher assigned altitude) direct IDA VOR/DME, before proceeding on course. **Rwy 19**, climb to 7000 (or higher assigned altitude) direct PIH VORTAC, before proceeding on course.

BOISE, ID

BOISE AIR TERMINAL / GOWEN FIELD (BOI)

AMDT 6 10042 (FAA)

DEPARTURE PROCEDURE: Use GOWEN DEPARTURE.

BOZEMAN, MT

GALLATIN FIELD (BZN)

AMDT 3 08213 (FAA)

TAKE-OFF MINIMUMS: **Rwys 3, 21**, NA-ATC.

DEPARTURE PROCEDURE: **Rwys 12, 30**, use BOZEMAN DEPARTURE.

BREMERTON, WA

BREMERTON NATIONAL (PWT)

AMDT 3 08045 (FAA)

TAKE-OFF MINIMUMS: **Rwy 1**, 300-1 or std. w/min. climb of 410' per NM to 700.

DEPARTURE PROCEDURE: **Rwy 1**, Climbing right turn to 6000 direct CAN NDB, Thence... **Rwy 19**, Climb to 6000 direct CAN NDB, thence...

...Continue climb-in-hold (S, LT, 013° inbound) to 6000 before proceeding on course.

NOTES: **Rwy 1**, Multiple bushes 380' from departure end of runway, 522' left of centerline, up to 17' AGL/456' MSL, multiple trees and poles beginning 1210' from departure end of runway, 622' left of centerline, up to 100' AGL/561' MSL, multiple trees and bushes 1012' from departure end of runway, 708' right of centerline, up to 100' AGL/495' MSL. **Rwy 19**, Multiple trees beginning 176' from departure end of runway, 337' left of centerline, up to 100' AGL/514' MSL, multiple trees beginning 371' from departure end of runway, 277' right of centerline, up to 100' AGL/548' MSL.

BUFFALO, WY

JOHNSON COUNTY

TAKE-OFF MINIMUMS: Northbound aircraft:

Rwys 13, 31, 2400-2 or std. with a min. climb of 300' per NM to 7500. Southbound aircraft: **Rwy 31**, 400-2 or std. with a min climb of 300' per NM to 6000.

DEPARTURE PROCEDURE: Northbound aircraft:

Rwy 13, turn left. **Rwy 31**, climb straight ahead.**All aircraft** proceed via SHR R-139 to SHR VORTAC.Southbound aircraft: **Rwy 13**, climb straight ahead.**Rwy 31**, turn right. **All aircraft** proceed via CZI R-319 to CZI VOR/DME.**BURLEY, ID**

BURLEY MUNI (BYI)

AMDT 5 10042 (FAA)

TAKE-OFF MINIMUMS: **Rwy 24**, 300-1½ or std. w/min. climb of 428' per NM to 4500.

DEPARTURE PROCEDURE: **Rwy 2**, climbing left turn direct BYI VOR/DME, continue climb in BYI VOR/DME holding pattern (hold Northwest right turns, 125° inbound) to cross BYI VOR/DME at or above MEA for route of flight. **Rwy 6**, climbing left turn direct BYI VOR/DME, continue climb in BYI VOR/DME holding pattern (hold Northwest right turns, 125° inbound) to cross BYI VOR/DME at or above MEA for route of flight. **Rwy 20**, climbing right turn direct BYI VOR/DME, continue climb in BYI VOR/DME holding pattern (hold Northwest right turns, 125° inbound) to cross BYI VOR/DME at or above MEA for route of flight. **Rwy 24**, climbing right turn direct BYI VOR/DME, continue climb in BYI VOR/DME holding pattern (hold Northwest right turns, 125° inbound) to cross BYI VOR/DME at or above MEA for route of flight.

NOTE: **Rwy 2**, obstruction light on bridge 252' from DER, 513' left of centerline, 57' AGL/4195' MSL. Trees beginning 686' from DER, 201' right of centerline, up to 35' AGL/4184' MSL. Tree 694' from DER, 375' left of centerline, 29' AGL/4178' MSL. Obstruction light on building 736' from DER, 188' left of centerline, 11' AGL/4161' MSL. Tower 803' from DER, 590' left of centerline, 55' AGL/4204' MSL. Vehicles on road beginning 857' from DER, 1' right of centerline, up to 17' AGL/4168' MSL. Poles beginning 1226' from DER, 549' left of centerline, up to 72' AGL/4222' MSL. Building vent 1240' from DER, 164' left of centerline, 27' AGL/4177' MSL. Stack 2206' from DER, 856' right of centerline, 86' AGL/4236' MSL. Stack 2573' from DER, 614' left of centerline, 86' AGL/4236' MSL. Elevators beginning 3980' from DER, 131' right of centerline, up to 133' AGL/4283' MSL. **Rwy 6**, trees beginning 46' from DER, 172' right of centerline, up to 14' AGL/4163' MSL. Rising terrain beginning 49' from DER, 326' right of centerline, up to 4149' MSL. Bush 150' from DER, 103' right of centerline, 5' AGL/4147' MSL. Antenna 586' from DER, 398' left of centerline, 15' AGL/4165' MSL. Obstruction light on bridge 1061' from DER, 80' right of centerline, 39' AGL/4179' MSL.

BURLEY MUNI (BYI) (CON'T)

Rwy 20, obstruction light pole 42' from DER, 124' left of centerline, 16' AGL/4170' MSL. Railroad beginning 65' from DER, 4' left of centerline, up to 23' AGL/4177' MSL. Sign 181' from DER, 121' right of centerline, 18' AGL/4172' MSL. Vehicles on road 162' from DER, 2' left of centerline, 17' AGL/4169' MSL. Vehicles on road beginning 335' from DER 348' right of centerline up to 17' AGL/4171' MSL. Pole 446' from DER, 210' right of centerline, 26' AGL/4180' MSL. Antenna 523' from DER, 337' right of centerline, 63' AGL/4217' MSL. Tree 586' from DER, 213' right of centerline, 28' AGL/4182' MSL. Trees beginning 2014' from DER, 339' left of centerline, up to 96' AGL/4251' MSL.

Rwy 24, vehicles on road beginning 25' from DER, 9' left of centerline, up to 15' AGL/4169' MSL. Fence 58' from DER, 8' left of centerline, 4' AGL/4154' MSL. Rising terrain beginning 69' from DER, 201' right of centerline, up to 4154' MSL. Railroad 152' from DER, 6' left of centerline, 23' AGL/4176' MSL. Trees beginning 427' from DER, 101' right of centerline, up to 69' AGL/4223' MSL. Vehicles on road beginning 509' from DER, 586' right of centerline, up to 15' AGL/4169' MSL. Railroad beginning 568' from DER, 288' right of centerline, up to 23' AGL/4177' MSL. Pole 735' from DER, 185' left of centerline, 18' AGL/4172' MSL. Light standard 824' from DER, 58' right of centerline, 23' AGL/4177' MSL. Antenna 1630' from DER, 112' left of centerline, 58' AGL/4212' MSL. Tower 2766' from DER, 175' left of centerline, 123' AGL/4282' MSL. Tower 3570' from DER, 158' right of centerline, 157' AGL/4312' MSL. Obstruction light on elevators beginning 3115' from DER, 164' left of centerline, up to 184' AGL/4344' MSL.

BURLINGTON/MOUNT VERNON, WA

SKAGIT RGNL (BVS)

ORIG-A 08297 (FAA)

TAKE-OFF MINIMUMS: **Rwy 4**, 3000-2 or std. with a min. climb of 340' per NM to 3600. **Rwy 10**, 1700-2 or std. with a min. climb of 245' per NM to 2300. **Rwy 22**, 1300-2 or std. with a min. climb of 210' per NM to 1800.

DEPARTURE PROCEDURE: **Rwys 4, 10, 22**, turn right heading 280°. **Rwy 28**, climb runway heading.

All aircraft climb to 2500 then turn right direct BVS NDB to cross BVS at or above 4500. Aircraft departing on BVS R-145 CWR-330 climb on course. All others continue climbing in BVS holding pattern (NW, right turns 113° inbound) to cross BVS at or above 6800 before proceeding on course.

NOTE: **Rwy 4**, tree 2581' from departure end of runway, 426' left of centerline, 100' AGL/212' MSL. Light pole 1489' from departure end of runway, 136' left of centerline 35' AGL/137' MSL. Bush 126' from departure end of runway, 430' right of centerline, 20' AGL/101' MSL. Building 2925' from departure end of runway, 130' left of centerline, 60' AGL/180' MSL.

BURNS, OR

BURNS MUNI

DEPARTURE PROCEDURE: **Rwy 3**, climbing right turn, thence... **Rwy 12**, climb to 4600 via heading 117°, thence... **Rwys 21, 30**, climbing left turn, thence...
...All aircraft departing on ILR R-072 CWR R-209, climb on course. All others climb on ILR R-123 within 10 NM to cross ILR VOR/DME at or above 5000.

NOTE: **Rwy 21**, pole 820' from departure end of runway, 357' left of centerline, 20' AGL/4169' MSL.

BUTTE, MT

BERT MOONEY

TAKE-OFF MINIMUMS: **Rwy 11**, NA-obstacles. **Rwy 15**, std. w/ min. climb of 601' per NM to 7300, or 3300-3 for climb in visual conditions. **Rwy 29**, std. w/ min. climb of 832' per NM to 6700, or 3300-3 for climb in visual conditions. **Rwy 33**, std. w/ min. climb of 355' per NM to 6800, or 3300-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 15**, climbing right turn direct CPN VOR/DME, or for climb in visual conditions: Cross Bert Mooney Airport westbound at or above 8800 then proceed direct CPN VOR/DME, thence... **Rwy 29**, climb heading 293° to intercept CPN VOR/DME R-082 to CPN VOR/DME, or for climb in visual conditions: Cross Bert Mooney Airport westbound at or above 8800 then proceed direct CPN VOR/DME, thence... **Rwy 33**, climb direct CPN VOR/DME, or for climb in visual conditions: Cross Bert Mooney Airport westbound at or above 8800 then proceed direct CPN VOR/DME, thence...

...climb in CPN VOR/DME holding pattern (hold north, left turn, 166° inbound) to cross CPN VOR/DME at or above MEA before proceeding enroute.

NOTE: **Rwy 15**, multiple trees beginning 2 NM from departure end of runway, 1779' right of centerline, up to 100' AGL/6659' MSL. Tree 2.1 NM from departure end of runway, 66' left of centerline, 100' AGL/5934' MSL.

Rwy 29, multiple trees and poles beginning 364' from departure end of runway, 7' right of centerline, up to 100' AGL/5621' MSL. Multiple trees and lights beginning 322' left of centerline, up to 100' AGL/5582' MSL. Terrain and numerous trees beginning 1.2 NM from departure end of runway, 1022' left of centerline, up to 100' AGL/6379' MSL. **Rwy 33**, flag pole 1095' from departure end of runway, 730' left of centerline, 64' AGL/5583' MSL.

CALDWELL, ID

CALDWELL INDUSTRIAL

TAKE-OFF MINIMUMS: **Rwy 12**, std. with a min. climb of 300' per NM to 5600, or 2400-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 12**, climb via heading 119° to 5600 before proceeding on course. For climb in visual conditions: Cross Caldwell Industrial Airport at or above 4800 before proceeding on course. **Rwy 30**, climb via heading 299° to 4400 before proceeding on course.

NOTE: **Rwy 12**, levee 198' from departure end of runway, 281' left of centerline, 0' AGL/2451' MSL. Multiple trees 1462' from departure end of runway, 877' right of centerline, up to 100' AGL/2505' MSL. **Rwy 30**, multiple poles 206' from departure end of runway, 389' right of centerline, up to 39' AGL/2457' MSL. Rod 353' from departure end of runway, 246' right of centerline, 21' AGL/2439' MSL.

CASPER, WY

CASPER/NATRONA COUNTY INTL (CPR)
AMDT 3A 09155 (FAA)

DEPARTURE PROCEDURE: **Rwys 3,8,12**, turn left.
All other runways, turn right. **All aircraft** climb direct
DDY VORTAC before proceeding on course, or comply
with published Casper SIDs.

CHEHALIS, WA

CHEHALIS-CENTRALIA

DEPARTURE PROCEDURE: **Rwy 16**, climb to 1000 via
heading 160° then climbing left turn to 4000 via heading
001° and OLM R-151 to OLM VORTAC before
proceeding on course. **Rwy 34**, climb to 4000 via
heading 340° and OLM R-176 to OLM VORTAC before
proceeding on course.

CHEYENNE, WY

CHEYENNE RGNL/JERRY OLSON FIELD

NOTE: **Rwy 13**, multiple trees beginning 74' from
departure end of runway, 115' left of centerline, up to 40'
AGL/6166' MSL. Multiple trees, pole, and fence
beginning 34' from departure end of runway, 167' right of
centerline, up to 40' AGL/6154' MSL. **Rwy 27**, multiple
trees and poles beginning 525' from departure end of
runway, 271' left of centerline, up to 40' AGL/6216' MSL.
Multiple trees and poles beginning 1222' from departure
end of runway, 275' right of centerline, up to 40' AGL/
6211' MSL. **Rwy 31**, multiple trees, road, fence and sign
beginning 196' from departure end of runway, 76' left of
centerline, up to 40' AGL/6238' MSL. Multiple poles and
sign beginning 407' from departure end of runway, 8' left
of centerline, up to 69' AGL/6229' MSL.

CODY, WY

YELLOWSTONE RGNL (COD)

AMDT 4 10042 (FAA)

TAKE-OFF MINIMUMS: **Rwy 4**, std. with a min. climb of
400' per NM to 8000' or 4200-3 for climb in visual
conditions. **Rwy 22**, std. with a min. climb of 385' per
NM to 7400' or 4200-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 4**, climb heading
038° to 5900, then climbing left turn via COD R-171 to
COD VOR/DME or for climb in visual conditions to
cross Yellowstone Rgnl at or above 9400, then via COD
R-189 to COD VOR/DME to cross COD VOR/DME at
or above MEA for route of flight. **Rwy 22**, climb heading
218° to 6600, then climbing left turn via COD R-180 to
COD VOR/DME or for climb in visual conditions to
cross Yellowstone Rgnl at or above 9400, then via COD
R-189 to COD VOR/DME to cross COD VOR/DME at
or above MEA for route of flight.

NOTE: **Rwy 4**, trees beginning 100' from DER, 262'
right of centerline, up to 79' AGL/5199' MSL. Rising
terrain beginning 1723' from DER, 304' right of
centerline, up to 5146' MSL. **Rwy 22**, poles beginning 1
NM from DER, 406' right of centerline, up to 60' AGL/
5332' MSL. Rising terrain beginning 1 NM from DER,
109' right of centerline, up to 6235' MSL. Rising terrain
beginning 5074' from DER, 131' left of centerline, up to
5428' MSL.

COEUR D'ALENE, ID

COEUR D'ALENE-PAPPY BOYINGTON FIELD
(COE)

AMDT 9 10042 (FAA)

DEPARTURE PROCEDURE: use COEUR D'ALENE
DEPARTURE.

COLSTRIP, MT

COLSTRIP (M46)

AMDT 2 08157 (FAA)

TAKE-OFF MINIMUMS: **Rwy 6** use CISPU (RNAV)
DEPARTURE. **Rwy 24**, use CONUK (RNAV)
DEPARTURE.

CONRAD, MT

CONRAD

DEPARTURE PROCEDURE: **Rwy 24**, climb runway
heading to 4300, then continue climb on course.

CORVALLIS, OR

CORVALLIS MUNI

TAKE-OFF MINIMUMS: **Rwys 9, 17, 35**, std. with a min.
climb of 290' per NM to 3100 or 1700-3 for climb in
visual conditions. **Rwy 27**, std. with a min. climb of 310'
per NM to 3100 or 1700-3 for climb in visual conditions.
DEPARTURE PROCEDURE: **Rwys 9, 17**, climbing left
turn direct CVO VOR/DME, thence...or, climb in visual
conditions to cross CVO VOR/DME at or above 3400.

Rwys 27, 35, climbing right turn direct CVO VOR/DME,
thence...or, climb in visual conditions to cross CVO
VOR/DME at or above 3400.

...climb in CVO VOR/DME holding pattern (E, RT, 261°
inbound) to depart at or above 3400.

NOTE: **Rwy 9**, multiple trees and railroad beginning 549'
from departure end of runway, 254' left of centerline, up
to 153' AGL/383' MSL. Multiple trees and railroad
beginning 670' from departure end of runway, 5' right of
centerline, up to 135' AGL/380' MSL. **Rwy 27**,
obstruction light on glideslope 409' from departure end
of runway, 325' left of centerline, 28' AGL/273' MSL.

Rwy 35, multiple trees beginning 470' from departure
end of runway, 544' left of centerline up to 36' AGL/276'
MSL.

COWLEY/LOVELL/BYRON, WY

NORTH BIG HORN COUNTY

DEPARTURE PROCEDURE: **Rwys 9, 27**, aircraft
departing via HCY NDB bearings 130° CW 225° climb
on course, all others climb in HCY NDB holding pattern
(W, right turns, 078° inbound) to cross HCY NDB at or
above 9000.

DEER PARK, WA

DEER PARK (DEW)
AMDT 1 10098 (FAA)

TAKE-OFF MINIMUMS: **Rwy 34**, 300-1½ or std. with a min. climb of 455' per NM to 2500.

DEPARTURE PROCEDURE: **Rwy 4**, climbing right turn heading 165° and GEG VORTAC R-006 to GEG VORTAC. **Rwy 16**, climb heading 164° and GEG VORTAC R-006 to GEG VORTAC. **Rwy 22**, climbing left turn heading 155° and GEG VORTAC R-006 to GEG VORTAC. **Rwy 34**, climbing right turn heading 165° and GEG VORTAC R-006 to GEG VORTAC.

NOTE: **Rwy 4**, aircraft 261' from DER, 511' left of centerline, up to 21' AGL/2210' MSL. Trees beginning 1809' from DER, 413' left of centerline, up to 109' AGL/2299' MSL. Aircraft 104' from DER, 186' right of centerline, up to 21' AGL/2200' MSL. Trees beginning 1667' from DER, 373' right of centerline, up to 116' AGL/2319' MSL. **Rwy 16**, trees beginning 31' from DER, 455' left of centerline, up to 109' AGL/2279' MSL. Trees beginning 2587' from DER, 621' right of centerline, up to 104' AGL/2264' MSL. **Rwy 22**, trees beginning 1461' from DER, 211' right of centerline, up to 90' AGL/2270' MSL. **Rwy 34**, aircraft 23' from DER, 218' left of centerline, up to 21' AGL/2230' MSL. Trees beginning 2678' from DER, 18' left of centerline, up to 165' AGL/2375' MSL. Vehicles beginning 74' from DER, 339' right of centerline, up to 15' AGL/2234' MSL. Trees beginning 2219' from DER, 260' right of centerline, up to 100' AGL/2382' MSL.

DILLON, MT

DILLON

TAKE-OFF MINIMUMS: **Rwys 3, 21**, NA.

DEPARTURE PROCEDURE: **Rwys 16, 34**, turn right, climb in DLN VOR/DME holding pattern (N, right turns, 185° inbound) to cross DLN VOR/DME at or above; northwestbound V257 8500; southwestbound V121 8500; northbound V21 7600; southeastbound V21, V257 9400.

DOUGLAS, WY

CONVERSE COUNTY

TAKE-OFF MINIMUMS: **Rwy 5**, 300-2 or std. with a min. climb of 250' per NM to 5200. **Rwy 23**, 1700-3 or std. with a min. climb of 260' per NM to 7200.

DEPARTURE PROCEDURE: **Rwy 5**, climbing right turn via IIP VOR/DME R-342 to IIP VOR/DME. **Rwy 11**, climbing right turn via IIP VOR/DME R-312 to IIP VOR/DME. **Rwy 23**, climbing left turn via IIP VOR/DME R-264 to IIP VOR/DME. **Rwy 29**, climbing right turn via IIP VOR/DME R-325 to IIP VOR/DME. **All aircraft** departing IIP R-253 CW R-180 climb on course. All others continue climb in IIP VOR/DME holding pattern (NW, left turns, 125° inbound) to cross IIP VOR/DME at or above: R-181 CW R-199 9600; R-200 CW R-252 8000.

NOTE: **Rwy 5**, trees 1883' from departure end of runway, 549' right of centerline, 35' AGL/5014' MSL. Trees 3407' from departure end of runway, 209' right of centerline, 35' AGL/5074' MSL. Trees 5458' from departure end of runway, 1954' right of centerline, 35' AGL/5132' MSL. **Rwy 23**, trees 2068' from departure end of runway, 1008' left of centerline, 35' AGL/4994' MSL. Trees 3130' from departure end of runway, 1215' left of centerline, 35' AGL/5014' MSL.

DRIGGS, ID

DRIGGS-REED MEMORIAL (DIJ)
AMDT 2 08157 (FAA)

DEPARTURE PROCEDURE: Use LAMON DEPARTURE.

EASTSOUND, WA

ORCAS ISLAND (ORS)

AMDT 1 09351 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, NA-Terrain. **Rwy 34**, 500-3 or std. w/ min. climb of 224' per NM to 600.

DEPARTURE PROCEDURE: **Rwy 34**, climbing right turn to 2000 to intercept HUH VORTAC R-210 to HUH VORTAC, then climb-in-hold (hold South, Left turns, 352° inbound) to cross HUH VORTAC at or above 3800 before proceeding on course.

NOTE: **Rwy 34**, trees beginning 330' from DER, 411' left of centerline, up to 120' AGL/139' MSL.

ELLENBURG, WA

BOWERS FIELD

TAKE-OFF MINIMUMS: **Rwys 7, 11**, 4600-3 or std. with a min. climb of 290' per NM to 7800. **Rwy 25**, 4700-3 or std. with a min. climb of 340' per NM to 7800. **Rwy 29**, 4600-3 or std. with a min. climb of 320' per NM to 7800.

DEPARTURE PROCEDURE: **Rwys 7, 29**, climbing right turn direct ELN VORTAC. **Rwys 11, 25**, climbing left turn direct ELN VORTAC. **All aircraft**, continue climbing in the ELN VORTAC holding pattern (W, right turns, 087° inbound) to MEA/MOCA for route of flight.

EPHRATA, WA

EPHRATA MUNI (EPH)

AMDT 3 09127 (FAA)

TAKE-OFF MINIMUMS: **Rwy 29**, NA-Obstacles.

DEPARTURE PROCEDURE: **Rwy 3**, climb heading 027° to 2300 before proceeding on course. **Rwy 11**, climb heading 112° to 2200 before proceeding on course. **Rwy 21**, climb heading 207° to 2800 before proceeding on course.

EUGENE, OR

MAHLON SWEET FIELD

DEPARTURE PROCEDURE: **Rwys 16L, 16R**, climb to 1000 then climbing right turn... **Rwys 34L, 34R**, climb to 1000 then climbing left turn...

...all aircraft climb direct EUG VORTAC, then climb in EUG VORTAC holding pattern (hold north, right turn, 175° inbound) to cross EUG VORTAC at or above MEA altitude before proceeding enroute.

NOTE: **Rwy 16R**, tree 1992' from departure end of runway, 832' left of centerline, 50' AGL/419' MSL. **Rwy 16L**, multiple trees and power poles beginning 872' from departure end of runway, 35' right of centerline, up to 50' AGL/437' MSL, multiple trees and power poles beginning 890' from departure end of runway, 77' left of centerline, up to 50' AGL/433' MSL. **Rwy 34R**, multiple trees beginning 2869' from departure end of runway, 186' right of centerline, up to 50' AGL/447' MSL. Tree 2535' from departure end of runway, 652' left of centerline, 50' AGL/428' MSL.

EVANSTON, WY

EVANSTON-UINTA COUNTY BURNS FIELD

DEPARTURE PROCEDURE: **Rwy 5**, climb via heading 050° and FBR VOR/DME R-243 to FBR VOR/DME.

Rwy 23, climbing left turn via heading 030° and FBR VOR/DME R-243 to FBR VOR/DME.

All aircraft: cross FBR VOR/DME at or above MEA for direction of flight.

EVERETT, WA

SNOHOMISH COUNTY (PAINE FIELD)

TAKE-OFF MINIMUMS: **Rwy 29**, std. with a min. climb of 353' per NM to 800.

DEPARTURE PROCEDURE: **Rwys 11, 16L/R**, climbing right turn, thence... **Rwys 29, 34L/R**, climbing left turn, thence...

...for aircraft departing via V287 west bound, climb via PAE VOR/DME R-236 to 3000. All others, climb direct PAE VOR/DME, climb in PAE VOR/DME holding pattern (NW, RT, 149° inbound) to MEA for route of flight before proceeding on course.

NOTE: Rwy 11, multiple antennas on building, rod on obstruction light, and trees beginning 326' from departure end of runway, 387' right of centerline, up to 85' AGL/664' MSL. Tree 1156' from departure end of runway, 600' left of centerline, 93' AGL/672' MSL. **Rwy 16L**, multiple trees and pole beginning 588' from departure end of runway, 220' left of centerline, up to 118' AGL/697' MSL. Multiple trees, pole, and building beginning 449' from departure end of runway, 162' right of centerline, up to 78' AGL/657' MSL. **Rwy 16R**, multiple trees beginning 1228' from departure end of runway, 168' left of centerline, up to 140' AGL/699' MSL. Multiple trees beginning 707' from departure end of runway, 158' right of centerline, up to 118' AGL/687' MSL. **Rwy 29**, multiple trees beginning 45' from departure end of runway, 66' left of centerline, up to 111' AGL/630' MSL. Multiple trees beginning 343' from departure end of runway, 44' right of centerline, up to 110' AGL/689' MSL. **Rwy 34R**, multiple trees and pole beginning 3340' from departure end of runway, 180' right of centerline, up to 95' AGL/674' MSL. Tree 5762' from departure end of runway, 221' left of centerline, 103' AGL/682' MSL.

FAIRCHILD AFB (KSKA)

SPOKANE, WA ORIG, 08017

DEPARTURE PROCEDURES: **Rwy 5**, climb on track 048° to intercept SKA R-045 to 5300, then on course. **Rwy 23**, climb on track 241° to 3400, then on course.

TAKE-OFF OBSTACLES: **Rwy 23**, Terrain 2468' MSL, 194' from DER, 405' right of centerline. Terrain 2477' MSL, 461' from DER, 751' right of centerline. Terrain 2477' MSL, 509' from DER, 750' right of centerline.

FORT BENTON, MT

FORT BENTON

TAKE-OFF MINIMUMS: **Rwys 5, 23**, std. w/ min. climb of 274' per NM to 8900 or 5100-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 5, 23**, for climb in visual conditions: Cross Fort Benton Airport at or above 8900 MSL before proceeding on course.

FORT BRIDGER, WY

FORT BRIDGER

DEPARTURE PROCEDURE: **All aircraft** climb direct FBR VOR/DME. Aircraft departing; FBR R-210 CW R-135 climb on course; FBR R-136 CW R-209 cross FBR VOR/DME at or above 9000. (Hold NE, right turns, 215° inbound).

FRIDAY HARBOR, WA

FRIDAY HARBOR

TAKE-OFF MINIMUMS: **Rwy 34**, 500-1.

DEPARTURE PROCEDURE: Aircraft departing FHR NDB **Rwy 34**, climbing right turn direct FHR NDB, then climb on course. All other aircraft climb on course.

GILLETTE, WY

GILLETTE-CAMPBELL COUNTY (GCC)

AMDT 4 09071 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, std. w/ min. climb of 275' per NM to 5600, or 1200-3 for climb in visual conditions. **Rwy 21**, 600-3 or std. w/ min. climb of 425' per NM to 5200.

DEPARTURE PROCEDURE: **Rwy 16**, climb via heading 158° to 5100, before proceeding on course or, for climb in visual conditions cross Gillette-Campbell County airport at or above 5400 before proceeding on course. **Rwy 21**, climb via heading 206° to 5200, before proceeding on course.

NOTE: Rwy 3, windsock 1415' from DER, 100' left of centerline, 24' AGL/4366' MSL. Trees beginning 1976' from DER, 267' right of centerline, up to 30' AGL/4409' MSL. **Rwy 16**, tower and poles beginning 1.61 NM from DER, 1264' left of centerline, up to 57' AGL/4696' MSL. Post and trees beginning 1.77 NM from DER, 300' right of centerline, up to 51' AGL/4789' MSL. **Rwy 21**, fence 328' from DER, 267' left of centerline, 7' AGL/4352' MSL, trees 2077' from DER, 1011' right of centerline, 30' AGL/4449' MSL, tree 7029' from DER, 2378' right of centerline, 30' AGL/4729' MSL. **Rwy 34**, fence 1236' from DER, 723' left of centerline, 16' AGL/4380' MSL. Vehicle on road 1609' from DER, 419' left of centerline, 15' AGL/4394' MSL. Trees 3093' from DER, 936' right of centerline, 30' AGL/4449' MSL. Vehicle on road 1610' from DER. 419' left of centerline, 15' AGL/4380' MSL.

GOODING, ID

GOODING MUNI (GNG)

ORIG 08269 (FAA)

DEPARTURE PROCEDURE: **Rwy 7**, climb heading 068° to 5000 before turning left. **Rwy 25**, climb heading 233° to 5600 before turning right.

NOTE: Rwy 7, rising terrain 59' from departure end of runway, 479' right of centerline, up to 3754' MSL. Fence line 653' from departure end of runway, 332' right of centerline, 12' AGL up to 3751' MSL. Bushes starting 877' from departure end of runway, 420' right of centerline, 20' AGL up to 3795' MSL. **Rwy 25**, vehicle on road, 91' from departure end of runway, 257' left of centerline, up to 10' AGL/3678' MSL.

GRANGEVILLE, ID

IDAHO COUNTY (S80)

AMDT 1 08157 (FAA)

TAKE-OFF MINIMUMS: **Rwy 7**, 10 - Obstacles.

DEPARTURE PROCEDURE: **Rwy 25**, Use MELLR

DEPARTURE.

GRANTS PASS, OR

GRANTS PASS

TAKE-OFF MINIMUMS: **Rwy 12**, NA. **Rwy 30**, 4000-3 or std. with a min. climb of 360' per NM to 5000.

DEPARTURE PROCEDURE: **Rwy 30**, climb via heading 320 until passing 5000, then climbing right turn direct RBG VOR/DME. Cross RBG VOR/DME at or above MEA for route of flight.

GRAY AAF (KGRF)

FORT LEWIS, WA AMDT 2, 10098

Rwy 15, Standard

Rwy 33, 300-1*

* Or standard with minimum climb of 430/NM to 600.

DEPARTURE PROCEDURE: **Rwy 15**, Climb heading 147° to 700 then climbing left turn direct GRF NDB.

Rwy 33, Climb direct GRF NDB. Aircraft departing 330° CW 070° and 135° CW 260° bearing from GRF NDB climb on course. All others continue climb in GRF NDB holding pattern (hold NW, RT, 147° inbound) to cross GRF NDB at or above: 071° CW 134° bearing from GRF NDB, 8500; 261° CW 329° bearing from GRF NDB, 1500.

TAKE-OFF OBSTACLES: **Rwy 15**, Tree 100' AGL/439' MSL, 1848' from DER, 430' right of centerline. **Rwy 33**, Tree 100' AGL/479' MSL, 3465' from DER, 1338' left of centerline.

GREAT FALLS, MT

GREAT FALLS INTL

NOTE: **Rwy 7**, obstruction light on lighted wind sock 237' from departure end of runway, 519' left of centerline, 34' AGL/3694' MSL. Obstruction light on building 2226' from departure end of runway, 614' left of centerline, 78' AGL/3738' MSL. Building on 681' from departure end of runway, 583' right of centerline, 48' AGL/3688' MSL. Multiple light poles beginning 1359' from departure end of runway, 440' right of centerline, up to 90' AGL/3746' MSL. **Rwy 21**, pole 1544' from departure end of runway, 791' left of centerline, 45' AGL/3725' MSL. **Rwy 25**, windmill 2.3 NM from departure end of runway, 4197' right of centerline, 338' AGL/4003' MSL.

GREYBULL, WY

SOUTH BIG HORN COUNTY (GEY)

ORIG-A 09239 (FA)

TAKE-OFF MINIMUMS: **Rwy 25**, 300-1 or std. w/min. climb of 260' per NM to 4200.

DEPARTURE PROCEDURE: **All runways**, for departures on GEY bearings 320° CW 150°, climb in GEY NDB holding pattern to 9000 before departing on course, then continue climb to MEA or assigned altitude. Departures GEY bearings 150° CW 320° climb on course.

NOTE: **Rwy 25**, bush 4955' from DER, 1268' right of centerline, 2' AGL/4101' MSL.

GUERNSEY, WY

CAMP GUERNSEY

TAKE-OFF MINIMUMS: **Rwy 14**, 300-1 or std. with a min. climb of 320' per NM to 4700. **Rwy 32**, 1400-2 or std. with a min. climb of 320' per NM to 5800.

DEPARTURE PROCEDURE: **Rwy 14**, climb to 5600 via heading 150°. **Rwy 32**, climb to 5800 via heading 070°. **All aircraft** continue on course.

HAILEY, ID

FRIEDMAN MEMORIAL

TAKE-OFF MINIMUMS: **Rwy 13**, 2700-3 w/min. climb of 307' per NM to 6400, or 3600-3 for climb in visual conditions. **Rwy 31**, NA-obstacles.

DEPARTURE PROCEDURE: **Rwy 13**, Climbing right turn heading 149°, then on 160° course to HLE NDB, or for climb in visual conditions: cross Friedman Memorial Airport at or above 8800 heading 151°, then on 151° course to HLE NDB.

NOTE: **Rwy 13**, multiple trees beginning 763' from departure end of runway, 3' right of centerline, up to 100' AGL/5345' MSL. Multiple trees beginning 1.3 NM from departure end of runway, 2587' right of centerline, up to 100' AGL/6099' MSL.

HAMILTON, MT

RAVALLI COUNTY

DEPARTURE PROCEDURE: Use HAMEY RNAV DEPARTURE.

HAVRE, MT

HAVRE CITY-COUNTY (HVR)

AMDT 3 09351 (FAA)

TAKE-OFF MINIMUMS: **Rwy 8**, 300-1½ or std. w/min. climb of 217' per NM to 3300.

DEPARTURE PROCEDURE: **Rwy 3**, climb heading 032° to 3300 then climbing left turn to 8000 direct HVR VOR/DME thence...**Rwy 8**, climb heading 077° to 3300 then climbing left turn to 8000 via HVR R-025 to HVR VOR/DME thence...**Rwy 21**, climb heading 212° to 3300 then climbing right turn to 8000 direct HVR VOR/DME thence...**Rwy 26**, climb heading 257° to 3300 then climbing right turn to 8000 direct HVR VOR/DME thence...

...continue climb in hold in HVR VOR/DME holding pattern (hold west, right turns, 094° inbound) to cross HVR VOR/DME at or above 8000 before proceeding on course.

NOTE: **Rwy 3**, pole 2682' from DER, 1044' left of centerline, 21' AGL/2680' MSL. **Rwy 8**, obstruction light on windsock 59' from DER, 224' left of centerline, 9' AGL/2588' MSL. Tree 1192' from DER, 752' left of centerline, 25' AGL/2610' MSL. Tank 1.3 NM from DER, 2287' left of centerline, 57' AGL/2797' MSL. **Rwy 26**, light on windsock, 50' from DER, 225' right of centerline, 9' AGL/2589' MSL. Trees beginning 1617' from DER, 650' right of centerline, 25' AGL/2659' MSL.

HELENA, MT

HELENA RGNL (HLN)
ADMT 9 08269 (FAA)

TAKE-OFF MINIMUMS: **Rwy 5**, 2500-3 or std. w/ min. climb of 250' per NM to 8100, or 1600-3 for climb in visual conditions. **Rwy 9**, std. w/ min. climb of 240' per NM to 8100, or 1600-3 for climb in visual conditions. **Rwy 23**, 1600-3 or std. w/ min. climb of 560' per NM to 8100, or 1600-3 for climb in visual conditions. **Rwy 27**, 1600-3 or std. w/ min. climb of 390' per NM to 8100, or 1600-3 for climb in visual conditions. **Rwys 16, 34, NA**.
DEPARTURE PROCEDURE: **Rwys 5, 9**, climbing left turn heading 270°. **Rwys 23, 27**, climbing right turn heading 020°. **All Aircraft**: continue climb northwestbound via HLN R-318 to 8100, then climbing right turn direct HLN VORTAC, cross HLN VORTAC at or above 9000, before proceeding on course, or for climb in visual conditions: cross Helena Rgnl airport northbound at or above 5300 and continue climbing via HLN R-336 to WOKEN INT before proceeding on course.

NOTE: **Rwy 5**, ground beginning 5' from departure end of runway, 495' right of centerline, up to 3826' MSL. Fence beginning 423' from departure end of runway, 331' right of centerline, up to 10' AGL/3832' MSL. **Rwy 23**, pole 2198' from departure end of runway, 462' left of centerline, 76' AGL/3996' MSL, tree 1011' from departure end of runway, 379' left of centerline, 44' AGL/3964' MSL, rod on building 953' from departure end of runway, 321' left of centerline, 323' AGL/943' MSL, tree 1519' from departure end of runway, 142' right of centerline, 53' AGL/3953' MSL. **Rwy 27**, building 1593' from departure end of runway, 731' left of centerline, 58' AGL/6385' MSL. Ground beginning 101' from departure end of runway, 346' left of centerline, up to 3871' MSL. Tree 1567' from departure end of runway, 616' left of centerline, 47' AGL/3906' MSL.

HERMISTON, OR

HERMISTON MUNI

NOTE: **Rwy 4**, tower 379' left of departure end of runway, 50' AGL/698' MSL. **Rwy 22**, light pole 456' left of departure end of runway, 44' AGL/684' MSL.

HOQUIAM, WA

BOWERMAN

TAKE-OFF MINIMUMS: **Rwy 6**, 600-2 or std. with a min. climb of 260' per NM to 600.
DEPARTURE PROCEDURE: **Rwy 6**, climbing right turn heading 110°. **Rwy 24**, climb runway heading.
All aircraft climb to 600 continue climb on course.

HULETT, WY

HULETT MUNI (W43)
ORIG 07354 (FAA)

TAKE-OFF MINIMUMS: **Rwy 13**, std. w/ min. climb of 450' per NM to 6300, or 500-2½ w/ min. climb of 295' per NM to 7700, or 2200-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 13**, climb to 7700 via heading 132° before proceeding on course, or climb in visual conditions: cross Hulett Muni Airport at or above 6300 before proceeding on course. **Rwy 31**, climbing right turn on a heading between 090° clockwise to 115° from departure end of runway to 7700 before proceeding on course.

NOTE: **Rwy 13**, road 398' from departure end of runway, 37' left of centerline, 15' AGL/4296' MSL, truck on road 1126' from departure end of runway, 346' right of centerline, 15' AGL/4334' MSL, trees beginning 4945' from departure end of runway, across centerline, up to 100' AGL/4657' MSL. **Rwy 31**, terrain 104' from departure end of runway, 420' left of centerline, 4200' MSL, terrain 344' from departure end of runway, 233' left of centerline, 4207' MSL.

IDAHO FALLS, ID

IDAHO FALLS RGNL (IDA)
AMDT 4 09351 (FAA)

DEPARTURE PROCEDURE: **All aircraft** departing IDA R-160 CW R-040 climb on course. **All others** climb direct IDA VOR/DME. Continue climb in IDA holding pattern (South, left turns, 019° inbound) to cross IDA VOR/DME at or above 7500 before proceeding on course.

NOTE: **Rwy 2**, pole 1039' from DER, 758' left of centerline, 42' AGL/4762' MSL. **Rwy 17**, trees, flagpole, building, light and vent on buildings, and vehicle on road beginning 29' from DER, 10' right of centerline, up to 84' AGL/4820' MSL. Trees and vent on building beginning 569' from DER, 22' left of centerline, up to 35' AGL/4760' MSL. Trees, antenna, and light poles beginning 1853' from DER, 26' right of centerline, up to 121' AGL/4851' MSL. **Rwy 35**, trees and railroad beginning 410' from DER, 503' right of centerline, up to 49' AGL/4769' MSL. Tree 1034' from DER, 715' left of centerline, 42' AGL/4762' MSL.

JACKSON, WY

JACKSON HOLE

DEPARTURE PROCEDURE: **Rwy 1**, use GEYSER DEPARTURE. **Rwy 19**, use TETON DEPARTURE.

JEROME, ID

JEROME COUNTY (JER)

AMDT 2 09295 (FAA)

TAKE-OFF MINIMUMS: **Rwy 9**, 500-1¼ or std. w/ min. climb of 435' per NM to 4700.

DEPARTURE PROCEDURE: **Rwy 9**, climb heading 086° to 5300 before proceeding on course. **Rwy 27**, climb heading 266° to 4800 before proceeding on course.

NOTE: **Rwy 9**, bush 140' from DER, 500' left of centerline, 16' AGL/4076' MSL. Poles starting 1432' from DER, 32' left of centerline, up to 47' AGL/4169' MSL. Sign 1473' from DER, 547' left of centerline, 49' AGL/4119' MSL. Obstruction light on building 1510' from DER, 6' left of centerline, 43' AGL/4103' MSL. Trees starting 1651' from DER, 100' left of centerline, up to 53' AGL/4137' MSL. Building 2186' from DER, 173' left of centerline, 29' AGL/4119' MSL. Rising terrain starting 2549' from DER, 560' left of centerline, up to 4219' MSL. AG equip 4752' from DER, 517' left of centerline, 26' AGL/4175' MSL. Poles starting 600' from DER, 254' right of centerline, up to 48' AGL/4173' MSL. **Rwy 27**, fence starting 18' from DER, 440' left of centerline, up to 9' AGL/3969' MSL.

JOHN DAY, OR

GRANT COUNTY RGNL/OGILVIE FIELD

(GCD)

AMDT 1 09015 (FAA)

TAKE-OFF MINIMUMS: **Rwys 9, 17, 35**, NA, Terrain.

DEPARTURE PROCEDURE: **Rwy 27**, climbing left turn to 12000 heading 270° and IMB R-100 to IMB VORTAC, climb in IMB VORTAC holding pattern (E, right turns, 280° inbound) to cross IMB VORTAC at or above MEA for route of flight.

NOTE: **Rwy 27**, fence beginning 195' from departure end of runway, 50' right of centerline, up to 16' AGL/3665' MSL. Trees beginning 229' from departure end of runway, 261' right of centerline, up to 26' AGL/3662' MSL. Bush 389' from departure end of runway, 438' right of centerline, 20' AGL/3659' MSL.

KALISPELL, MT

GLACIER PARK INTL

DEPARTURE PROCEDURE: Use SKOTT

DEPARTURE.

KELSO, WA

SOUTHWEST WASHINGTON RGNL (KLS)

AMDT 3 10098 (FAA)

TAKE-OFF MINIMUMS: **Rwy 12**, NA, terrain. **Rwy 30**, std. with a min. climb of 370' per NM to 1900 or 1900-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 30**, climb heading 303° to 1900 then climbing right turn to 3900 direct LSO NDB. Continue climb in LSO NDB holding pattern (North, right turns, 175° inbound) to cross LSO NDB at or above 3900, then via BTG R-310 to BTG VORTAC. For climb in visual conditions: cross Southwest Washington Rgnl at or above 1800, then via BTG R-309 to BTG VORTAC.

NOTE: **Rwy 30**, light pole 22' from DER, 301' right of centerline, 30' AGL/49' MSL. Windssock 235' from DER, 348' left of centerline, 30' AGL/49' MSL. Rotating beacon 502' from DER, 425' left of centerline, 50' AGL/70' MSL. Multiple trees beginning 213' from DER, 530' right to 747' left of centerline, up to 136' AGL/155' MSL. Pole 964' from DER, 44' right of centerline, 30' AGL/50' MSL.

KEMMERER, WY

KEMMERER MUNI (EMM)

AMDT 1 09239 (FAA)

TAKE-OFF MINIMUMS: **Rwys 4, 10, 22, 28**, NA -Rwy surfaces.

DEPARTURE PROCEDURE: **Rwy 16**, climb to 12000 via heading 166° and FBR VOR/DME R-330 to FBR VOR/DME before proceeding on course. **Rwy 34**, climb via heading 346° to 8200 then climbing right turn to 12000 via heading 125° and FBR VOR/DME R-345 to FBR VOR/DME before proceeding on course.

KLAMATH FALLS, OR

KLAMATH FALLS

TAKE-OFF MINIMUMS: **Rwy 7**, NA. **Rwy 14**, 1100-3 or std. with a min. climb of 275' per NM to 5500. **Rwy 25**, 3300-3 or std. with a min. climb of 250' per NM to 7400. **Rwy 32**, 2000-3 or std. with a min. climb of 320' per NM to 6300.

DEPARTURE PROCEDURE: **Rwys 14, 25**, climb via runway heading to 6000 then climbing right turn direct LMT VORTAC, thence... **Rwy 32**, climb via runway heading to 5500 then climbing left turn direct LMT VORTAC, thence... climb in LMT holding pattern (W, right turns, 070° inbound) to cross LMT VORTAC at or above 8000.

LA GRANDE, OR

LA GRANDE/UNION COUNTY

TAKE-OFF MINIMUMS: **Rwy 12**, Cat A/B 2900-3 or std. with a min. climb of 350' per NM to 6100. Cat C/D 4500-3 or std. with a min. climb of 500' per NM to 7800. **Rwy 30**, Cat A/B 2900-3 or std. with a min. climb of 350' per NM to 6100. Cat C/D 3600-3 or std. with a min. climb of 450' per NM to 6800. **Rwy 34**, 2900-3 or std. with a min. climb of 350' per NM to 6100. **Rwy 16**, 2000-3 or std. with a min. climb of 500' per NM to 5000.

DEPARTURE PROCEDURE: **Rwy 12, 16**, climbing left turn direct LGD NDB, thence; **Rwys 30, 34**, climbing right turn heading 010°, thence; **all aircraft** climb to 7000 via the 339° bearing from LGD NDB, then climbing right turn direct LGD NDB.

LAKEVIEW, OR

LAKE COUNTY

TAKE-OFF MINIMUMS: **Rwy 16**, 3700-5 or std. with a min. climb of 320' per NM to 8800. **Rwy 34**, 2500-5 or std. with a min. climb of 320' per NM to 8500.

DEPARTURE PROCEDURE: **Rwy 16**, climbing right turn via LKV R-163 to LKV VORTAC. **Rwy 34**, climbing left turn heading 320° to intercept LKV R-148 then via LKV R-148 to LKV VORTAC. **All aircraft** continue climbing in the LKV VORTAC holding pattern (NW, right turns, 148° inbound) to MEA for route of flight.

LARAMIE, WY

LARAMIE RGNL

DEPARTURE PROCEDURE: **Rwy 3**, turn left.

Rwys 12, 21, turn right. **All aircraft** climb direct LAR VORTAC, continue climb in holding pattern (W, left turns, 107° inbound) to cross LAR VORTAC at or above: westbound V4, 10600. All others cross LAR VORTAC at or above MEA for direction of flight.

LAUREL, MT

LAUREL MUNI

TAKE-OFF MINIMUMS: **Rwys 9, 14, 27, 32**, NA.

DEPARTURE PROCEDURE: **Rwy 22**, turn left.

All aircraft climb direct BIL VORTAC.

LEWISTON, ID

LEWISTON-NEZ PERCE COUNTY

DEPARTURE PROCEDURE: **Rwys 8, 11, 26, 29**, turn left direct MQG VOR/DME. Continue climb in holding pattern (W, left turns, 066° inbound) to cross MQG VOR/DME at or above 3600.

LEWISTOWN, MT

LEWISTOWN MUNI

TAKE-OFF MINIMUMS: **Rwy 2**, 1800-2 or std. with a min. climb of 280' per NM to 6900. **Rwy 7, 12**, 900-2 or std. with a min. climb of 220' per NM to 6200.

DEPARTURE PROCEDURE: **Rwys 2, 30** turn left.

Rwys 7, 12, 20, turn right. **Rwy 25**, climb runway heading. **All aircraft** climb direct LWT VORTAC. Continue climb in holding pattern (W, right turns, 094° inbound) to MEA for route of flight.

LEXINGTON, OR

LEXINGTON

TAKE-OFF MINIMUMS: **Rwy 26**, std. with min. climb of 280' per NM to 7600, or 1600-2 ½ for climb in visual conditions. **Rwy 8**, std. with min. climb of 490' per NM to 4200, or 1600-2 ½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 8, 26**, for climb in visual conditions: cross Lexington Airport at or above 3600.

NOTES: **Rwy 8**, trees 1.42 NM from departure end of runway, 2386' left of centerline, 100' AGL/2159' MSL. Trees 1.48 NM from departure end of runway, 2755' left of centerline, 100' AGL/2179' MSL.

LIBBY, MT

LIBBY

TAKE-OFF MINIMUMS: **Rwy 33**, not authorized.

Rwy 15, use EYESE RNAV DEPARTURE.

LIVINGSTON, MT

MISSION FIELD (LVM)

AMDT 3 09071 (FAA)

TAKE-OFF MINIMUMS: **Rwys 8, 13, 26, 31**, NA-Environmental.

DEPARTURE PROCEDURE: **Rwys 4, 22**, use LIVINGSTON DEPARTURE.

MADRAS, OR

MADRAS MUNI (S33)

ORIG-A 09043 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, std. w/a min. climb of 298' per NM to 3900 or 1100-2 ½ for climb in visual conditions. **Rwy 22**, std. w/a min. climb of 281' per NM to 3900 or 1100-2 ½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 4, 34**, climbing left turn heading 210° and DSD R-348 to DSD VORTAC to 7000 before proceeding on course. **Rwy 16**, climbing right turn heading 210° and DSD R-348 to DSD VORTAC to 7000 before proceeding on course, or... **Rwy 22**, climb heading 216° and DSD R-348 to DSD VORTAC to 7000 before proceeding on course, or... for climb in visual conditions: cross Madras Muni at or above 3400 MSL, then direct DSD VORTAC to 7000 before proceeding on course.

MC CALL, ID

MC CALL MUNI (MYL)

AMDT 2 09127 (FAA)

TAKE-OFF MINIMUMS: **Rwy 34**, NA-Obstacles.

DEPARTURE PROCEDURE: **Rwy 16**, use MCCALL DEPARTURE.

MC CHORD AFB (KTCM)

TACOMA, WA 09127

DEPARTURE PROCEDURE: **Rwy 16**, Track heading 160°, turn left to intercept SEA VORTAC R-168 (V495) to SEA 168/37.1 DME (ALDER). Cross ALDER at or above 4000. After ALDER, maintain MEA/MOCA for route of flight. **Rwy 34**, Track heading 340°, then turn right to intercept SEA VORTAC R-168 (V495) to SEA R-168/37.1 DME (ALDER). Cross ALDER at or above 4000. Maintain MEA/MOCA for route of flight.

TAKEOFF OBSTACLES: **Rwy 16**, Grove of trees 143' AGL/454' MSL, 4892' from DER, 1353' left of centerline. Grove of trees 102' AGL/419' MSL, 2395' from DER, 1028' right of centerline. Trees 136' AGL/447' MSL, 2867' from DER, 1261' left of centerline. Trees 120' AGL/430' MSL, 2594' from DER, 1113' left of centerline. Trees 85' AGL/394' MSL, 2310' from DER, 957' left of centerline. Trees 83' AGL/392' MSL, 2006' from DER, 959' left of centerline. Trees 87' AGL/389' MSL, 1758' from DER, 971' left of centerline. **Rwy 34**, Tree 106' AGL/348' MSL, 2307' from DER, 1038' left of centerline. Tree 121' AGL/370' MSL, 3190' from DER, 526' right of centerline. Aircraft 65' AGL/317' MSL, 186' from DER, 407' left of centerline. Tree 64' AGL/343' MSL, 2260' from DER, 1036' left of centerline. Building 40' AGL/321' MSL, 1668' from DER, 810' left of centerline.

MC MINNVILLE, OR

MC MINNVILLE MUNI (MMV)

AMDT 4 08325 (FAA)

TAKE-OFF MINIMUMS: **Rwy 4**, 400-1¼ or std. w/ min. climb of 238' per NM to 400, or alternatively, with standard take-off minimums and normal 200'/NM climb gradient, take-off must occur no later than 2000' prior to departure end of runway. **Rwy 17**, std. w/ min. climb of 300' per NM to 1200 or 1800-2½ for climb in visual conditions. **Rwy 22**, std. w/ min. climb of 303' per NM to 1400 or 1800-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 4**, climb heading 038° to intercept UBG R-170 to UBG VOR/DME, thence ...

Rwy 17,22, climbing left turn to intercept UBG R-183 to UBG VOR/DME, thence ... or for climb in visual conditions: cross Mc Minnville Muni at or above 1800 before proceeding on course. **Rwy 35**, climb heading 347° to intercept UBG R-221 to UBG VOR/DME, thence...

... continue climb in UBG VOR/DME holding pattern (S, left turns, 003° inbound) until reaching MEA for route of flight.

NOTE: **Rwy 4**, multiple trees beginning 2040' from departure end of runway, 353' left and 209' right of centerline, up to 100' AGL/339 feet MSL. **Rwy 17**, tree 1719' from departure end of runway, 456' right of centerline, 100' AGL/231' MSL. Tree 1760' from departure end of runway, 627' left of centerline, 100' AGL/257' MSL. **Rwy 22**, multiple trees beginning 282' from departure end of runway, 120' left and 144' right of centerline, up to 100' AGL/246' MSL. Tree 4047' from departure end of runway, 1319' left of centerline, 100' AGL/284' MSL. **Rwy 35**, multiple trees beginning 1551' from departure end of runway, 229' right of centerline, up to 100' AGL/277' MSL.

MEDFORD, OR

ROGUE VALLEY INTL-MEDFORD (MFR)

AMDT 9 09015 (FAA)

TAKE-OFF MINIMUMS: **Rwys 9,27**, NA-Obstacles.

Rwy 14, std. w/ min. climb of 430' per NM to 4600, or 2900-3 for climb in visual conditions. **Rwy 32**, std. with a min. climb of 260' per NM to 6800, or 2900-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 14**, climbing right turn direct OED VORTAC, or for climb in visual conditions, cross Rogue Valley Intl airport at or above 4100 before proceeding direct OED VORTAC...

Rwy 32, climbing right turn direct OED VORTAC, or for climb in visual conditions, cross Rogue Valley Intl airport at or above 4100 before proceeding direct OED VORTAC...

...all aircraft climb in OED VORTAC holding pattern (hold NW, right turns, 153° inbound) to cross OED VORTAC at or above 6400.

MISSOULA, MT

MISSOULA INTL (MSO)

AMDT 8 08213 (FAA)

TAKE-OFF MINIMUMS: **Rwys 7,25**, NA-Obstacles.

DEPARTURE PROCEDURE: **Rwys 11, 29**, use GRZLY DEPARTURE.

MOSES LAKE, WA

GRANT COUNTY INTL

NOTE: **Rwy 14R**, antenna 3902' from departure end of runway, 828' right of centerline, 98' AGL/1268' MSL.

Rwy 18, pole 405' from departure end of runway, 334' right of centerline, 30' AGL/1209' MSL. Windsock 496' from departure end of runway, 371' left of centerline, 16' AGL/1195' MSL. **Rwy 32L**, pole 1326' from departure end of runway, 373' left of centerline, 22' AGL/1202' MSL.

MOUNTAIN HOME AFB (KMUO)

MOUNTAIN HOME, ID 07270

Rwy 12,30, 6700-3*

* Or standard with minimum climb of 270'/NM to 9100.

TAKE-OFF OBSTACLES: **Rwy 12**, Terrain 0' AGL/3028' MSL, 1224' from DER, 744' right of centerline. Terrain 0' AGL/3035' MSL, 824' from DER, 721' right of centerline. Terrain 0' AGL/3035' MSL, 507' from DER, 636' right of centerline. Terrain 0' AGL/3022' MSL, 49' from DER, 202' right of centerline. Terrain 0' AGL/3018' MSL, 148' from DER, 328' left of centerline. Terrain 0' AGL/3016' MSL, 300' from DER, 580' left of centerline. Road/Vehicle 15' AGL/3044' MSL, 1147' from DER, 794' right of centerline. Power pole 35' AGL/3069' MSL, 2914' from DER, 940' right of centerline. Tower 30' AGL/3032' MSL, 1067' from DER, 902' right of centerline. Tower 28' AGL/3039' MSL, 1172' from DER, 796' right of centerline. Tower 45' AGL/3054' MSL, 2152' from DER, 1478' left of centerline. **Rwy 30**, Terrain 0' AGL/2995' MSL, 40' from DER, 492' left of centerline. Terrain 0' AGL/2999' MSL, 370' from DER, 467' right of centerline. Terrain 0' AGL/3006' MSL, 507' from DER, 636' right of centerline. Terrain 0' AGL/3007' MSL, 570' from DER, 653' right of centerline. Road/Vehicle 35' AGL/3019' MSL, 954' from DER, 773' left of centerline.

MOUNTAIN HOME, ID

MOUNTAIN HOME MUNI

TAKE-OFF MINIMUMS: **Rwy 10**, 3500-2 or std. with a min. climb of 305' per NM to 7300. **Rwy 28**, 3500-2 or std. with a min. climb of 290' per NM to 7300.

DEPARTURE PROCEDURE: **Rwy 10**, climbing left turn direct STI NDB. **Rwy 28**, climbing right turn direct STI NDB. All aircraft departing STI NDB bearing 080° CW 340° climb on course. All others continue climb in hold (E, left turns, 271° inbound) to cross STI NDB at or above 7300.

NAMPA, ID

NAMPA MUNI

DEPARTURE PROCEDURE: **Rwy 11**, climbing right turn direct MPA NDB, continue climb in MPA holding pattern (NW, right turns, 145° inbound). Depart MPA NDB at or above 5500 before proceeding on course.

Rwy 29, climb runway heading to 3700 then climbing right turn direct MPA NDB, continue climb in MPA holding pattern (NW, right turns, 145° inbound). Depart MPA NDB at or above 5500 before proceeding on course.

NOTE: **Rwy 11**, 70' AGL tree, 1225' from departure end of runway, 90' right of centerline.

NEWCASTLE, WY

MONDELL FIELD (ECS)

AMDT 3A 09267 (FAA)

TAKE-OFF MINIMUMS: **Rwy 5,17,23,35, NA. Rwy 13**, 200-1 or std. with a min. climb of 275' per NM to 4400'.
Rwy 31, 300-1 or std. with a min. climb of 300' per NM to 4600.

DEPARTURE PROCEDURE: **Rwy 31**, climbing left turn. **All aircraft** climb to 5500 via ECS R-143, then climbing right turn direct ECS VOR, continue climb on course.

NOTE: **Rwy 13**, fence posts, beginning 299' from DER, 218' left of centerline, up to 10' AGL/4190' MSL. Light on antenna 1951' from DER, 879' left of centerline, 84' AGL/4244' MSL. **Rwy 31**, multiple poles, beginning 74' from DER, 237' right of centerline, up to 20' AGL/4200' MSL. Bush 5787' from DER, 1441' right of centerline, 13' MSL/4363' MSL. Railroad 735' from DER, 314' right of centerline 30' AGL/4202' MSL. Road 207' from DER, 254' right of centerline, 15' AGL/4187' MSL.

NEWPORT, OR

NEWPORT MUNI

TAKE-OFF MINIMUMS: **Rwy 2, NA. Rwy 16**, 500-2 or std. with a min. climb of 310' per NM to 800.

DEPARTURE PROCEDURE: **Rwy 2, NA. Rwy 16**, turn right. **Rwy 34**, turn left. Aircraft departing via ONP R-180 CW R-320 depart on course. All others continue climbing via ONP R-200 to 1500 then climbing left turn direct ONP VORTAC. Cross ONP VORTAC at or above 2200.

NORTH BEND, OR

SOUTHWEST OREGON RGNL (OTH)

AMDT 4B 09071 (FAA)

TAKE-OFF MINIMUMS: **Rwy 4**, 800-2 or std. with a min. climb of 340' per NM to 900. **Rwy 13**, 800-2. **Rwys 16,34**, NA-Rwy closed. **Rwy 31**, 300-2 or std. with a min. climb of 240' per NM to 400.

DEPARTURE PROCEDURE: **Rwys 4,31**, turn left. **Rwys 13,22**, turn right. **All aircraft** climb via OTH VORTAC R-250 to 1300 then climbing right turn direct OTH VORTAC.

NOTE: **Rwy 13**, spire 3468' from departure end of runway, 1128' left of centerline, 55' AGL/243' MSL, multiple trees beginning 3068' from departure end of runway, 78' left of centerline, up to 132' AGL/291' MSL.

OAK HARBOR, WA

A J EISENBERG (OKH)

ORIG-A 09071 (FAA)

TAKE-OFF MINIMUMS: **Rwy 7**, 300-1. **Rwy 25**, 300-1 DEPARTURE PROCEDURE: **Rwy 7**, climb via heading 071° to 2000, then climbing right turn direct CVV VOR/DME. Continue climb on course. **Rwy 25**, climb via heading 251° to 2100, then climbing left turn direct CVV VOR/DME. Continue climb on course.

NOTE: **Rwy 7**, multiple trees beginning 1167' from DER, 212' left of centerline, up to 80' AGL/319' MSL. Multiple trees beginning 664' from DER, 208' right of centerline, up to 80' AGL/299' MSL. Fence 612' from DER, right and left of centerline, 10' AGL/229' MSL. Multiple bushes beginning 240' from DER, 64' left of centerline, up to 8' AGL/227' MSL. **Rwy 25**, cars on road 87' from DER, left and right of centerline, up to 15' AGL/174' MSL. Multiple trees beginning 2271' from DER, right and left of centerline, up to 80' AGL/279' MSL.

OLYMPIA, WA

OLYMPIA RGNL (OLM)

AMDT 5A 09127 (FAA)

TAKE-OFF MINIMUMS: **Rwy 17**, 300-2 or std. with a min. climb of 706' per NM to 600, or 2200-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 8**, climb heading 085° to 1000 then climbing left turn direct OLM VORTAC, thence... **Rwy 17**, climb heading 172° to 1200 then climbing right turn direct OLM VORTAC, thence... or climb in visual conditions to cross OLM VORTAC at or above 2300, thence... **Rwys 5,26,35**, climbing right turn direct OLM VORTAC, thence...

...continue climb in OLM VORTAC holding pattern (south, right turn, 356° inbound) to cross OLM VORTAC at or above MEA/MCA for route of flight.

NOTE: **Rwy 8**, multiple trees beginning 880' from DER, 214' left of centerline, up to 100' AGL/343' MSL. Multiple trees beginning 1636' from DER, 131' right of centerline, up to 100' AGL/320' MSL. **Rwy 17**, multiple trees beginning 1008' from DER, 24' left of centerline, up to 100' AGL/490' MSL. Multiple trees beginning 752' from DER, 3' right of centerline, up to 100' AGL/370' MSL. **Rwy 26**, multiple trees and WSK on building beginning 475' from DER, 595' left of centerline, up to 100' AGL/330' MSL. Multiple trees beginning 338' from DER, 339' right of centerline, up to 100' AGL/309' MSL. **Rwy 35**, multiple trees beginning 2176' from DER, 198' left of centerline, up to 100' AGL/313' MSL. Multiple trees and field light on hangar beginning 657' from DER, 621' right of centerline, up to 100' AGL/315' MSL.

OMAK, WA

OMAK

TAKE-OFF MINIMUMS: **Rwy 17**, 2200-2 or std. with a min. climb of 300' per NM to 4200. **Rwy 35**, NA.

DEPARTURE PROCEDURE: **Rwy 17**, use GETNG RNAV DEPARTURE. **Rwy 35**, NA.

ONTARIO, OR

ONTARIO MUNI (ONO)

AMDT 3 08325 (FAA)

DEPARTURE PROCEDURE: **Rwy 32**, climb to 9600 on a heading between 010° CW to 141° from departure end of runway or minimum climb of 280' per NM to 9600 for all other courses.

NOTE: **Rwy 14**, multiple trees, poles, and buildings beginning 90' from departure end of runway, 157' right of centerline up to 120' AGL/2314' MSL. Multiple trees, poles, and buildings beginning 502' from departure end of runway, 506' left of centerline up to 120' AGL/2314' MSL. **Rwy 32**, multiple trees, poles, and buildings beginning 340' from departure end of runway, 405' left of centerline up to 100' AGL/2458' MSL. Multiple trees, poles, and buildings beginning 2' from departure end of runway, 472' right of centerline up to 100' AGL/2431' MSL.

PASCO, WA

TRI-CITIES

DEPARTURE PROCEDURE: **All runways**, climb runway heading to 1000, thence... **Rwy 12**, turn left. All others turn right. **All aircraft** climb direct PSC VOR/DME before proceeding on course.

PENDLETON, OR

EASTERN OREGON RGNL AT PENDLETON
(PDT)

AMDT 3 09183 (FAA)

DEPARTURE PROCEDURE: **Rwys 7, 29, 34**, climbing left turn direct PDT VORTAC, thence...

Rwys 11, 16, climbing right turn direct PDT VORTAC, thence...

Rwy 25, climb direct PDT VORTAC, thence...

...continue climb in PDT VORTAC holding pattern (West, left turn, 073° inbound) to cross PDT VORTAC at or above MEA before proceeding on course.

NOTE: **Rwy 16**, multiple trees beginning 232' from DER, 348' right of centerline, up to 100' AGL/1579' MSL.

Rwy 25, multiple antennas and terrain beginning 203' from DER, 259' left of centerline, up to 13' AGL/1512' MSL. **Rwy 29**, terrain 189' from DER, 247' left of centerline, 1493' MSL.

PINEDALE, WY

PINEDALE/RALPH WENZ FIELD (PNA)

AMDT 2 09295 (FAA)

TAKE-OFF MINIMUMS: **Rwy 29**, std. with a min. climb of 310' per NM to 8300, or 4900-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 11**, climbing right turn to 10000 via heading 190° and BPI R-040 to BPI VOR/DME before proceeding on course. **Rwy 29**, climbing left turn to 10000 via heading 230° and BPI R-020 to BPI VOR/DME before proceeding on course or for climb in visual conditions: cross Pinedale/Ralph Wenz Field at or above 11800 before proceeding on course.

PLENTYWOOD, MT

SHER-WOOD

NOTE: **Rwy 12**, multiple bushes beginning 47' from departure end of runway, 71' left of centerline, up to 12' AGL/2251' MSL. Multiple bushes beginning 362' from departure end of runway, 514' right of centerline, up to 12' AGL/2251' MSL. **Rwy 30**, multiple bushes and road beginning 68' from departure end of runway, 75' right of centerline, up to 12' AGL/2303' MSL. Multiple bushes beginning 217' from departure end of runway, 60' left of centerline, up to 12' AGL/2296' MSL.

POCATELLO, ID

POCATELLO RGNL (PIH)

AMDT 7 09351 (FAA)

DEPARTURE PROCEDURE: use KNURL ONE DEPARTURE.

POLSON, MT

POLSON

TAKE-OFF MINIMUMS: **Rwy 18**, N/A-extremely precipitous terrain. **Rwy 36**, standard with a min. climb of 270' per NM to 8400'.

DEPARTURE PROCEDURE: **Rwy 36**, Use ANGIL RNAV DEPARTURE.

NOTES: **Rwy 36**, Road 509' from departure end of runway, 2955' MSL. Trees 2.39 NM from departure end of runway, 3383' left of centerline, 100' AGL/3179 MSL. Rapidly rising precipitous terrain left and right of centerline running along southern Flathead River ridges.

PORT ANGELES, WA

PORT ANGELES CGAS

DEPARTURE PROCEDURE: Copter departure, climb from landing area direct to EDIZ HOOK NDB.

Continue climb in holding pattern (NE, right turns, 237° inbound) to MEA for direction of flight.

WILLIAM R FAIRCHILD INTL

DEPARTURE PROCEDURE: **Rwys 8, 13, 26, 31**, use WATTFIVE DEPARTURE.

PORTLAND, OR

PORTLAND INTL (PDX)

AMDT 6 09015 (FAA)

TAKE-OFF MINIMUMS: **Rwy 3**, 500-3 or std. w/ min. climb of 400' per NM to 600. **Rwy 10L/R**, std. w/ min. climb of 270' per NM to 2900. **Rwy 21**, std. w/ min. of 310' per NM to 1800.

DEPARTURE PROCEDURE: **Rwy 3**, climb heading 025° to 700, then climbing left turn direct BTG VORTAC, thence... **Rwys 10L, 10R**, climb heading 099° to 500, then climbing left turn direct BTG VORTAC, thence... **Rwy 21**, climb heading 205.03 to 500, then climbing right turn direct BTG VORTAC, thence... **Rwys 28L, 28R**, climb heading 279° to 500, then climbing right turn direct BTG VORTAC, thence... continue climb in BTG VORTAC holding pattern (hold NW, right turns, 149° inbound) to cross BTG VORTAC at or above MCA/MEA before proceeding on course.

NOTE: **Rwy 3**, signs, tower, trees, and vehicle on road beginning 468' from departure end of runway, 28' left of centerline, up to 100' AGL/449' MSL. Poles, trees, and vehicle on road beginning 609' from departure end of runway, 7' left of centerline, up to 100' AGL/416' MSL. **Rwy 10L**, rising terrain and vehicle on road beginning 7' from departure end of runway, 376' left of centerline, up to 17' AGL/60' MSL. **Rwy 10R**, pole 1996' from departure end of runway, 758' right of centerline, 54' AGL/74' MSL. note: **Rwy 21**, trees beginning 1319' from departure end of runway, 155' right of centerline, up to 100' AGL/318' MSL. Poles and trees beginning 353' from departure end of runway, 36' left of centerline, up to 100' AGL/317' MSL. **Rwy 28L**, trees 1873' from departure end of runway, 836' left of centerline, 50' AGL/88' MSL.

Rwy 28R, multiple signs, poles, and vehicle on road beginning 876' from departure end of runway, 654' right of centerline, up to 27' AGL/69' MSL.

PORTLAND, OR (CON'T)

PORTLAND-HILLSBORO

TAKE-OFF MINIMUMS: **Rwy 30**, 200-1¼ or std. with a min. climb of 223' per NM to 500. Alternatively, with standard take-off minimums and a normal 200'/NM climb gradient, take-off must occur no later than 1600' prior to departure end of runway.

DEPARTURE PROCEDURE: **Rwy 12**, climbing right turn direct UBG VOR/DME... **Rwys 2, 20, 30**, climbing left turn direct UBG VOR/DME...

...all aircraft climb in UBG VOR/DME holding pattern (west, right turn, 108° inbound) to cross UBG VOR/DME at or above MEA/MCA for direction of flight before proceeding on course.

NOTE: **Rwy 2**, multiple roads beginning 246' from departure end of runway, 3' right of centerline, up to 15' AGL/220' MSL. **Rwy 12**, multiple trees beginning 1842' from departure end of runway, 222' left of centerline, up to 125' AGL/324' MSL. Multiple trees beginning 3629' from departure end of runway, 46' right of centerline, up to 143' AGL/332' MSL. **Rwy 20**, multiple trees and pole beginning 967' from departure end of runway, 118' left of centerline, up to 93' AGL/292' MSL. Vent of hangar 63' from departure end of runway, 428' left of centerline, 26' AGL/225' MSL. Multiple trees and antenna on building beginning 965' from departure end of runway, 449' right of centerline, up to 74' AGL/273' MSL. **Rwy 30**, multiple trees beginning 1664' from departure end of runway, 623' right of centerline, up to 194' AGL/363' MSL. Pole 702' from departure end of runway, 603' left of centerline, 26' AGL/215' MSL.

PORTLAND-TROUTDALE

TAKE-OFF MINIMUMS: **Rwy 7**, 3600-2 or std. with a min. climb of 380' per NM to 4100. **Rwy 25**, 900-2 or std. with a min. climb of 360' per NM to 1000.

DEPARTURE PROCEDURE: **Rwy 7**, turn left.

Rwy 25, turn right. All aircraft climb via BTGR-125 direct BTG VORTAC. Continue climb on BTG R-329 within 10 NM to cross BTG VORTAC at or above: BTG R-355 CW R-055 or R-085 CW R-115 5000; all others 2500.

POWELL, WY

POWELL MUNI

TAKE-OFF MINIMUMS: **Rwy 3, 16, 21, 34**, NA.

DEPARTURE PROCEDURE: **Rwy 13**, turn right.

Rwy 31, turn left. All aircraft climb direct COD VOR/DME. Aircraft departing COD R-350 CW R-170 climb on course. All others continue climb in COD VOR/DME holding pattern (N, left turns, 189° inbound) to cross COD VOR/DME at or above 8800

PRINEVILLE, OR

PRINEVILLE (S39)

AMDT 1 08213 (FAA)

TAKE-OFF MINIMUMS: **Rwy 10**, std. w/min. climb of 350 feet per NM to 6500, or 2400-3 for climb in visual conditions. **Rwy 15**, std. w/min. climb of 470' per NM to 6200, or 2400-3 for climb in visual conditions. **Rwy 28**, std. w/min. climb of 450' per NM to 6700, or 2400-3 for climb in visual conditions. **Rwy 33**, std. w/min. climb of 380' per NM to 6700, or 2400-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 10**, climb heading 102° to 6500 before proceeding on course or for climb in visual conditions cross Prineville Muni airport at or above 5600 before proceeding on course. **Rwy 15**, climb heading 154° to 6200 before proceeding on course or for climb in visual conditions cross Prineville Muni airport at or above 5600 before proceeding on course. **Rwy 28**, climb heading 282° to 6700 before proceeding on course or for climb in visual conditions cross Prineville Muni airport at or above 5600 before proceeding on course. **Rwy 33**, climb heading 334° to 6700 before proceeding on course or for climb in visual conditions cross Prineville Muni airport at or above 5600 before proceeding on course.

NOTE: **Rwy 10**, trees beginning 2693' from departure end of runway, 545' right of centerline, up to 100' AGL/3339' MSL. **Rwy 15**, trees beginning 1129' from departure end of runway, 697' right of centerline, up to 100' AGL/3319' MSL. **Rwy 28**, trees beginning 1803' from departure end of runway, 74' right of centerline, up to 100' AGL/3319' MSL. **Rwy 33**, trees beginning 2636' from departure end of runway, 379' right of centerline, up to 100' AGL/3319' MSL.

PULLMAN-MOSCOW, WA

PULLMAN-MOSCOW RGNL

TAKE-OFF MINIMUMS: **Rwy 5**, 300-1¼ with a min. climb of 278' per NM to 4400, or 4600-3 for climb in visual conditions. **Rwy 23**, 300-1 or std. with a min. climb of 361' per NM to 4700.

DEPARTURE PROCEDURE: **Rwy 5**, climbing left turn direct PUW VOR/DME, cross PUW VOR/DME at or above 4700, continue climb in PUW VOR/DME holding pattern (SW, left turn, 032° inbound) to cross PUW VOR/DME at or above MEA for direction of flight, or for climb in visual conditions; cross Pullman-Moscow Rgnl at or above 4500. **Rwy 23**, climbing left turn via PUW VOR/DME R-021, cross PUW VOR/DME at or above 4700, continue climb in PUW VOR/DME holding pattern (SW, left turn, 032° inbound) to cross PUW VOR/DME at or above MEA for direction of flight.

NOTE: **Rwy 5**, multiple trees and terrain left and right of centerline, beginning 614' from departure end of runway, 424' right of centerline up to 50' AGL/2677' MSL. Terrain 3503' from departure end of runway, 770' left of centerline, 50' AGL/2608' MSL. **Rwy 23**, multiple trees, terrain, fences, poles, and tanks beginning 669' from departure end of runway, 412' right of centerline, up to 52' AGL/2769' MSL.

PUYALLUP, WA

PIERCE COUNTY-THUN FIELD (PLU)
AMDT 1A 09071 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16, 34**, 300-1.

DEPARTURE PROCEDURE: **Rwy 16**, climbing right turn. **Rwy 34**, climb runway heading. **All aircraft** climb via SEAR-158 to COTNY INT/SEA 18.1 DME. Continue in COTNY holding pattern (Hold S, left turns, 338° inbound) to depart COTNY at or above: 001° CW 090° 3500, 090° 3500, 091° CW 120° 10,400, 121° CW 170° 2700, 171° CW 360° 1500.

NOTE: **Rwy 16**, light pole 511' from DER, 567' right of centerline, 40' AGL/552' MSL. Multiple poles on building beginning 187' from DER, 416' left of centerline, up to 575' MSL. Multiple trees beginning 363' from DER, 656' left of centerline to 540' right of centerline, up to 662' MSL. Vehicles on road beginning 1149' from DER, 512' right of centerline, up to 15' AGL/582' MSL. Terrain beginning 1293' from DER, 529' left of centerline to 352' right of centerline, up to 581' MSL. Pipe 1520' from DER, 303' left of centerline, 574' MSL. **Rwy 34**, multiple trees beginning 58' from DER, 591' left of centerline to 1029' right of centerline, up to 694' MSL. Flagpole 1155' from DER, 464' left of centerline, 578' MSL. Building 564' from DER, 410' left of centerline, 555' MSL.

RAWLINS, WY

RAWLINS MUNI/HARVEY FIELD

TAKE-OFF MINIMUMS: **Rwy 4**, 600-2 or std. with a min. climb of 440' per NM to 7500. **Rwy 22**, 1500-2 or std. with a min climb of 365' per NM to 8700. **Rwys 10, 28**, NA.

DEPARTURE PROCEDURE: **Rwy 4**, turn right.

Rwy 22, turn left. Climb to 10000 via RWL R-200 and CKW R-080 to CKW VOR/DME then via assigned route. Aircraft departing eastbound V4 or V6 climb via RWL R-200 to assigned route then climb on course.

REDMOND, OR

ROBERTS FIELD (RDM)

AMDT 5 09183 (FAA)

TAKE-OFF MINIMUMS: **Rwy 22**, std. w/ min. climb of 269' per NM to 4700. **Rwy 28**, std. w/ min. climb of 276' per NM to 4800.

DEPARTURE PROCEDURE: **Rwy 4**, climbing left turn via heading 265° and DSD R-047 to DSD VORTAC, climb in DSD VORTAC holding pattern (hold North, right turn, 168° inbound) to cross DSD VORTAC at or above MEA for route of flight before proceeding on course. **Rwy 10**, climbing right turn via heading 240° and DSD R-090 to DSD VORTAC, climb in DSD VORTAC holding pattern (hold North, right turn, 168° inbound) to cross DSD VORTAC at or above MEA for route of flight before proceeding on course. **Rwy 22**, climb heading 222° and DSD R-090 to DSD VORTAC, climb in DSD VORTAC holding pattern (hold North, right turn, 168° inbound) to cross DSD VORTAC at or above MEA for route of flight before proceeding on course. **Rwy 28**, climbing left turn via heading 275° and DSD R-045 to DSD VORTAC, climb in DSD VORTAC holding pattern (hold North, right turn, 168° inbound) to cross DSD VORTAC at or above MEA for route of flight before proceeding on course.

NOTE: **Rwy 28**, numerous trees beginning 1' from DER, 356' right of centerline, 12' AGL/3079' MSL. Tree 364' from DER, 448' left of centerline, 15' AGL/3054' MSL.

RENTON, WA

RENTON MUNI (RNT)
AMDT 7 09351 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, std. with a min. climb of 405' per NM to 800, or 1100-2½ for climb in visual conditions. **Rwy 34**, 500-2¼ or std. with a min. climb of 315' per NM to 700.

DEPARTURE PROCEDURE: **Rwy 16**, climb heading 157° to 700, then climbing right turn direct SEA VORTAC, thence..., or for climb in visual conditions: cross Renton Muni Airport westbound at or above 1000 MSL, then proceed on SEAR R-029 to SEA VORTAC, thence... **Rwy 34**, Climb heading 337° to 700, then climbing left turn direct SEA VORTAC thenceClimb in SEA VORTAC holding pattern (East, left turns, 290° inbound) to cross SEA VORTAC at or above MEA/MCA for direction of flight.

NOTES: **Rwy 16**, trees, towers, lights and blast shield beginning 185' from DER, 4' left of centerline, up to 100' AGL/574' MSL. Trees, lights and sign beginning 40' from DER, 54' right of centerline, up to 100' AGL/297' MSL. **Rwy 34**, Trees and terrain beginning 1.6 NM from DER, 104' left of centerline, up to 100' AGL/485' MSL. Trees, terrain and wood piling beginning 75' from DER, 7' right of centerline, up to 100' AGL/426' MSL.

REXBURG, ID

REXBURG-MADISON COUNTY

DEPARTURE PROCEDURE: **Rwy 17**, climbing right turn. **Rwy 35**, climbing left turn. **All aircraft** climb via IDA VOR/DME R-015 to RIGBY Int to MEA for route of flight before proceeding on course.

NOTE: **Rwy 17**, 100' AGL trees 125' from departure end of runway, 350' left of centerline. **Rwy 35**, 100' AGL trees 350' from departure end of runway, 450' right of centerline. 100' AGL trees 750' from departure end of runway, 500' left of centerline.

RICHLAND, WA

RICHLAND

TAKE-OFF MINIMUMS: **Rwy 1**, 200-1 or std. w/min. climb of 310' per NM to 700. **Rwy 19**, std. w/min. climb of 480' per NM to 2300, or 1800-2½ for climb in visual conditions. **Rwy 26**, 500-2½ or std. w/min. climb of 309' per NM to 1000.

DEPARTURE PROCEDURE: **Rwy 1**, climbing right turn via heading 070° and PSC R-301 to PSC VOR/DME, thence...**Rwy 8**, climbing right turn direct PSC VOR/DME, thence...**Rwy 19**, climbing right turn via heading 040° and PSC R-269 to PSC VOR/DME, or for climb in visual conditions: cross Richland Airport at or above 2000 then proceed on PSC R-269, to PSC VOR/DME thence...**Rwy 26**, climbing right turn via heading 070° and PSC R-287 to PSC VOR/DME, thence...

...climb in PSC VOR/DME holding pattern (hold East, right turn, 291° inbound) to cross PSC VOR/DME at or above MEA for route of flight before proceeding on course.

NOTE: **Rwy 1**, crane and multiple poles 752' from departure end of runway, 477' right of centerline, up to 110' AGL/520' MSL. Trees 43' from departure end of runway, 414' left of centerline, 100' AGL/407' MSL. **Rwy 8**, multiple trees and railroad beginning 400' from departure end of runway, 252' right of centerline, up to 100' AGL/469' MSL. Multiple trees and railroad beginning 204' from departure end of runway, 241' left of centerline, up to 100' AGL/469' MSL. **Rwy 19**, multiple trees 64' from departure end of runway, 169' right of centerline, up to 100' AGL/679' MSL. Multiple trees, terrain, and buildings 22' from departure end of runway, 30' left of centerline, up to 100' AGL/479' MSL. **Rwy 26**, multiple trees, fence, and terrain beginning 458' from departure end of runway, 230' left of centerline, up to 100' AGL/839' MSL. Multiple posts, antenna, and terrain beginning 164' from departure end of runway, 255' right of centerline, up to 18' AGL/417' MSL.

RIVERTON, WY

RIVERTON RGNL (RIW)

AMDT 1 10042 (FAA)

DEPARTURE PROCEDURE: **Rwys 1, 10, 19, 28**, climbing right turn direct RIW VOR/DME. **All Aircraft** climb in RIW holding pattern (hold East, right turns, 287° inbound) to MEA for direction of flight.

NOTES: **Rwy 1**, sage brush beginning 35' from DER, left and right of centerline, up to 3' AGL/5499' MSL. **Rwy 10**, sage brush beginning 20' from DER, left and right of centerline, up to 3' AGL/5466' MSL. **Rwy 19**, sage brush beginning 49' from DER, 171' right of centerline, up to 3' AGL/5479' MSL. Windstocks beginning 154' from DER, 268' right of centerline, up to 28' AGL/5468' MSL. **Rwy 28**, sage brush, tower, and pole beginning 54' from DER, 154' right of centerline, up to 59' AGL/5679' MSL. Sage brush, fence, and poles beginning 132' from DER, 27' left of centerline, up to 67' AGL/5647' MSL.

ROCK SPRINGS, WY

ROCK SPRINGS-SWEETWATER COUNTY (RKS)

AMDT 6 10098 (FAA)

DEPARTURE PROCEDURE: **Rwy 3**, climb heading 032° to 8000 then climbing left turn direct OCS VOR/DME, continue climb in OCS VOR/DME holding pattern (hold East, right turns, 260° inbound) to cross OCS VOR/DME at or above MEA for route of flight. **Rwy 9**, climb heading 090° to 8200 then climbing left turn direct OCS VOR/DME, continue climb in OCS VOR/DME holding pattern (hold East, right turns, 260° inbound) to cross OCS VOR/DME at or above MEA for route of flight. **Rwy 21**, climb heading 212° to 8400, then climbing right turn direct OCS VOR/DME, continue climb in OCS VOR/DME holding pattern (hold East, right turns, 260° inbound) to cross OCS VOR/DME at or above MEA for route of flight. **Rwy 27**, climb heading 270° to 7900, then climbing right turn via OCS R-291 to OCS VOR/DME, continue climb in OCS VOR/DME holding pattern (hold East, right turns, 260° inbound) to cross OCS VOR/DME at or above MEA for route of flight.

NOTE: **Rwy 3**, vehicle on road beginning 22' from DER, 120' left of centerline, up to 20' AGL/6760' MSL, bushes beginning 178' from DER, 517' right of centerline, up to 15' AGL/6755' MSL. **Rwy 21**, bush 53' from DER, 221' left of centerline, 15' AGL/6737' MSL.

RONAN, MT

RONAN (7S0)

ORIG 09295 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, std. w/min. climb of 260' per NM to 9900 or 6100-3 for climb in visual conditions. **Rwy 34**, std. w/min. climb of 250' per NM to 9900 or 6100-3 in visual conditions.

DEPARTURE PROCEDURE: **Rwy 16**, climb to 8800 on a heading between 177° CW to 336° from DER or for climb in visual conditions, cross Ronan airport at or above 9000 before proceeding on course. **Rwy 34**, climb to 8800 on a heading between 336° CCW to 177° from DER or for climb in visual conditions, cross Ronan airport at or above 9000 before proceeding on course.

NOTE: **Rwy 16**, tree 485' from DER, 386' left of centerline 50' AGL/3149' MSL. **Rwy 34**, building 158' from DER, 370' left of centerline 40' AGL/3130' MSL. Tree 1358' from DER, 556' left of centerline 50' AGL/3149' MSL.

ROSEBURG, OR

ROSEBURG RGNL (RBG)

AMDT 5A 08297 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, std. with a min. climb of 642' per NM to 2000, or 1700-3 for climb in visual conditions. **Rwy 34**, std. with a min. climb of 760' per NM to 2000, or 1700-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 16**, climb direct RBG VOR/DME, or climb in visual conditions to cross Roseburg Airport southbound at or above 2200, then direct RBG VOR/DME. Then via RBG R-157 and right turn direct RBG VOR/DME to cross at or above the MCA or MEA for route of flight. **Rwy 34**, climb via heading 342° to 4000, or climb in visual conditions to cross Roseburg Airport northbound at or above 2200 and then via heading 342° to 4000. Then climbing left turn direct RBG VOR/DME, to cross RBG VOR/DME at or above MCA or MEA for route of flight. Aircraft that have not reached the MCA or MEA for route of flight continue climb via RBG R-157 and right turn direct RBG VOR/DME.

NOTE: **Rwy 16**, tower 1.56 NM from departure end of runway, 2231' right of centerline, 50' AGL/1201' MSL, tree 1.47 NM from departure end of runway, 1560' right of centerline, 21' AGL/980' MSL, tree 1.46 NM from departure end of runway, 1298' right of runway centerline, 45' AGL/964' MSL, pole 1.36 NM from departure end of runway, 921' right of centerline, 75' AGL/914' MSL, rod on airway beacon 1.29 NM from departure end of runway, 409' right of centerline, 52' AGL/891' MSL, tree 655' from departure end of runway, 347' right of runway centerline, 93' AGL/593' MSL, obstruction light on pole 691' from departure end of runway, 187' right of runway centerline, 117' AGL/557' MSL. **Rwy 34**, tree 1.10 NM from departure end of runway, 2003' left of runway centerline, 60' AGL/1179' MSL. Tree 5165' from departure end of runway, 1744' left of centerline, 64' AGL/1023' MSL. Obstruction light on pole 4850' from departure end of runway, 56' left of centerline, 15' AGL/894' MSL. Tree 4785' from departure end of runway, 48' left of runway centerline, 23' AGL/862' MSL. Tree 1.41 NM from departure end of runway, 1826' left of runway centerline, 17' AGL/896' MSL. Tree 4079' from departure end of runway, 508' left of runway centerline, 21' AGL/780' MSL. Tree 5067' from departure end of runway, 265' right of centerline, 43' AGL/802' MSL. Tree 4260' from departure end of runway, 345' right of centerline, 42' AGL/761' MSL. Tree 1465' from departure end of runway 329' right of runway centerline, 100' AGL/642' MSL. Tree 913' from departure end of runway, 217' right of runway centerline, 100' AGL/622' MSL. Tree 647' from departure end of runway, 345' right of runway centerline, 100' AGL/615' MSL. Hill 1065' from departure end of runway, 299' right of runway centerline 608' MSL. Trees beginning 60' from departure end of runway, 117' left of runway centerline, up to 16' AGL/554' MSL. Trees beginning 242' from departure end of runway, 209' right of runway centerline, up to 56' AGL/584' MSL. Vehicle on road 265' from departure end of runway, 229' right of runway centerline, 15' AGL/560' MSL. Multiple signs beginning 792' from departure end of runway, 550' left of runway centerline, up to 60' AGL/565' MSL. Bush 94' from departure end of runway, 228' right of runway centerline, 19' AGL/547' MSL. Bush 202' from departure end of runway, 92' left of centerline, 7' AGL/535' MSL. Pole 640' from departure end of runway, 354' left of runway centerline, 29' AGL/557' MSL.

SALEM, OR

MCNARY FIELD

TAKE-OFF MINIMUMS: **Rwy 13**, 600-2 or std. with a min. climb of 240' per NM to 800. **Rwy 16**, 600-2 or std. with a min. climb of 340' per NM to 800.

DEPARTURE PROCEDURE: Comply with SIDs or; **Rwys 31, 34**, turn right. **Rwy 16**, turn left. **Rwy 13**, climb heading 130°. **All aircraft** climb direct TURN O LOM/Int. Continue climb in holding (SE, left turns, 310° inbound) to cross TURN O LOM/INT at or above MEA for route of flight.

SALMON, ID

LEMHI COUNTY

TAKE-OFF MINIMUMS: **Rwy 17**, NA. **Rwy 35**, 4300-5 or std. with a min. climb of 390' per NM to 8000.

DEPARTURE PROCEDURE: **Rwy 17**, NA. **Rwy 35**, climb runway heading to 8000, then climbing left turn to 11,300 direct LKT VOR/DME before proceeding on course.

SANDPOINT, ID

SANDPOINT

TAKE-OFF MINIMUMS: **Rwy 1**, 4200-2 or std. with a min. climb of 520' per NM to 5800. **Rwy 19**, 2200-2 or std. with a min. climb of 480' per NM to 4600.

DEPARTURE PROCEDURE: **Rwy 1**, climbing right turn to COE VOR/DME via heading 200° and COE R-002. **Rwy 19**, climbing left turn to COE VOR/DME via heading 140° and COE R-002.

SARATOGA, WY

SHIVELY FIELD

TAKE-OFF MINIMUMS: **Rwy 23**, 400-1 or std. with a min. climb of 220' per NM to 7400.

DEPARTURE PROCEDURE: **Rwy 5**, turn left heading 280°. **Rwy 23**, turn right heading 340°. **All aircraft** climb to 9000 via 310° bearing from SAA NDB then continue climb on course.

SCAPPOOSE, OR

SCAPPOOSE INDUSTRIAL AIRPARK

DEPARTURE PROCEDURE: **Rwy 15**, climbing left turn direct BTG VORTAC. **Rwy 33**, climbing right turn direct BTG VORTAC. Aircraft departing BTG R-160 CW R-329 climbing left turn on course. All others climb in BTG VORTAC holding pattern (NW, right turns, 149° inbound) to cross BTG VORTAC at or above MEA/MCA for direction of flight.

NOTE: **Rwy 15**, 158' MSL tree 470' from departure end of runway, 499' right of centerline. **Rwy 33**, cross departure end of runway 33 at or above 35' AGL/90' MSL. 130' MSL tree 613' from departure end of runway, 414' right of centerline; 142' MSL trees 1343' from departure end of runway, 348' right of centerline.

SCOBEE, MT

SCOBEE

TAKE-OFF MINIMUMS: **Rwy 12**, std. with a min. climb of 280' per NM to 3400.

SEATTLE, WA

BOEING FIELD/KING COUNTY INTL

TAKE-OFF MINIMUMS: **Rwy 13L**, 500-3 w/ min. climb of 232' per NM to 800, or 1000-2½ for climb in visual conditions. **Rwy 13R**, std. w/ a min. climb of 476' per NM to 900, or 500-3 w/ a min. climb of 386' per NM to 900, or 1000-2½ for climb in visual conditions. **Rwy 31L**, std. w/ a min. climb of 386' per NM to 800, or 300-1½ w/ min. climb of 235' per NM to 800, or 1000-2 ½ for climb in visual conditions. **Rwy 31R**, std. w/ a min. climb of 334' per NM to 900, or 400-1¾ w/ min. climb of 216' per NM to 900, or 1000-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 13L/R**, climbing right turn. **Rwys 31L/R**, climbing left turn. All aircraft climb direct to SEA VORTAC, continue climb in SEA VORTAC holding pattern (hold east, left turns, 290° inbound) to cross SEA VORTAC at or above 3000. For climb in visual conditions cross Boeing Field/King County Intl Airport at or above 900, then climb to 3000 via SEAR-344 to SEA VORTAC, continue climb in SEA VORTAC holding pattern (hold east, left turns, 290° inbound) to cross SEA VORTAC at or above 3000.

NOTES: **Rwy 13L**, multiple trees, towers, antennas and building beginning 402' from departure end of runway, 411' left of centerline, up to 127' AGL/479' MSL.

Rwy 13R, multiple trees and poles beginning 35' from departure end of runway, 154' left of centerline, up to 66' AGL/485' MSL. Multiple trees and poles beginning 501' from departure end of runway, 3' right of centerline, up to 77' AGL/195' MSL. **Rwy 31L**, multiple trees, fence, and building beginning 250' from departure end of runway, 253' left of centerline, up to 71' AGL/101' MSL. Multiple trees and floodlights beginning 1245' from departure end of runway, 447' right of centerline, up to 71' AGL/239' MSL. **Rwy 31R**, multiple trees, hangers, towers, poles and building beginning 12' from departure end of runway, 389' right of centerline, up to 103' AGL/350' MSL. Multiple obstruction lights beginning 214' from departure end of runway, 99' left of centerline, up to 71' AGL/101' MSL.

SEATTLE-TACOMA INTL (SEA)

AMDT 4 08325 (FAA)

DEPARTURE PROCEDURE: **Rwys 16L, 16C, 16R**, climb to 1000 via heading 163°, then climbing right turn direct SEA VORTAC, thence...

Rwys 34L, 34C, 34R, climb to 1000 via heading 343°, then climbing left turn direct SEA VORTAC, thence...
...climb in SEA VORTAC holding pattern (hold SE, left turns, 310° inbound) to MEA/MCA for route of flight.

NOTE: **Rwy 16L**, trees beginning 2908' from departure end of runway, 1064' right of centerline, up to 100' AGL/476' MSL. **Rwy 16C**, trees beginning 4477' from departure end of runway, 484' right of centerline, up to 100' AGL/507' MSL. **Rwy 16R**, trees, antenna on building and light pole beginning 488' from departure end of runway, 436' left of centerline, up to 100' AGL/507' MSL. Trees beginning 1137' from departure end of runway, 587' right of centerline, up to 100' AGL/468' MSL. **Rwy 34L**, fence 189' from departure end of runway, 401' right of centerline, up to 12' AGL/420' MSL. Trees beginning 4010' from departure end of runway, 857' left of centerline, up to 100' AGL/522' MSL.

SHELBY, MT

SHELBY

TAKE-OFF MINIMUMS: **Rwy 5**, 200-1 ¼ or std. w/ min. climb of 212' per NM to 3700, or alternatively, w/ std. takeoff minimums and a normal 200'/NM climb gradient, takeoff must occur no later than 1300' prior to departure end of runway.

NOTE: **Rwy 5**, fence post 320' from departure end of runway, 162' right of centerline, 12' AGL/3455' MSL, truck on road beginning 515' from departure end of runway, 632' right of centerline, 17' AGL/3498' MSL, tree 1 NM from departure end of runway, 1242' left of centerline, 75' AGL/3604' MSL. **Rwy 11**, truck on road 906' from departure end of runway, 691' left of centerline, 17' AGL/3456' MSL, tree 1697' from departure end of runway, 26' right of centerline, 75' AGL/3495' MSL, tree 1561' from departure end of runway, 322' left of centerline, 75' AGL/3514' MSL, light standard 852' from departure end of runway, 174' left of centerline, 22' AGL/3451' MSL.

SHELTON, WA

SANDERSON FIELD

TAKE-OFF MINIMUMS: **Rwy 5**, std. w/ a min. climb of 312' per NM to 4000, or 1500-2½ for a climb in visual conditions. **Rwy 23**, std. w/ a min. climb of 414' per NM to 4000, or 1500-2½ for a climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 5**, climbing right turn to intercept SEA R-230 to CARRO intersection. Or for climb in visual conditions: Cross Sanderson Field northeast bound at or above 1600, thence via SEA R-230 to cross CARRO intersection at or above 4000. **Rwy 23**, climbing left turn to intercept SEA R-230 to CARRO intersection. Or for climb in visual conditions: Cross Sanderson Field northeast bound at or above 1600, thence via SEA R-230 to cross CARRO intersection at or above 4000.

NOTE: **Rwy 5**, multiple trees beginning 550' from departure end of runway, 107' left of centerline, up to 94' AGL/366' MSL. Multiple trees beginning 130' from departure end of runway, 70' right of centerline, up to 80' AGL/352' MSL. **Rwy 23**, multiple trees beginning 52' from departure end of runway, 149' left of centerline, up to 72' AGL/330' MSL. Multiple trees beginning 886' from departure end of runway, 153' right of centerline, up to 155' AGL/486' MSL.

SHERIDAN, WY

SHERIDAN COUNTY

TAKE-OFF MINIMUMS: **Rwy 5**, 700-3 or std. w/ min. climb of 318' per NM to 5100, or... **Rwy 14**, 800-3 or std. w/ min. climb of 263' per NM to 5100, or... **Rwy 23**, 900-3 or std. w/ min. climb of 348' per NM to 5100, or...
...1400/3 for climb in visual conditions. Climb in visual conditions NA at night.

DEPARTURE PROCEDURE: **Rwy 5**, climbing left turn via SHR R-106 to SHR VORTAC, or climb in visual conditions to cross Sheridan County Airport northwestbound at or above 5300, then via SHR R-126 to SHR VORTAC, thence... **Rwy 14**, climbing left turn via heading 320° and SHR R-106 to SHR VORTAC, or climb in visual conditions to cross Sheridan County Airport northwestbound at or above 5300, then via SHR R-126 to SHR VORTAC, thence... **Rwy 23**, climbing right turn via SHR R-153 to SHR VORTAC, or climb in visual conditions to cross Sheridan County Airport northwestbound at or above 5300, then via SHR R-126 to SHR VORTAC, thence... **Rwy 32**, climb via heading 320° and SHR R-106 to SHR VORTAC, thence...
...climb in holding pattern (hold northwest, left turn, 133° inbound) to cross SHR VORTAC at or above airway MEA for route of flight.

NOTE: **Rwy 5**, multiple trees beginning 101' from departure end of runway, 188' left of centerline, up to 80' AGL/3991' MSL. **Rwy 23**, fence 1201' from departure end of runway, 10' left of centerline, 20' AGL/4060' MSL. Building 1949' from departure end of runway, 415' left of centerline, 17' AGL/4077' MSL. Tree 3337' from departure end of runway, 391' right of centerline, 43' AGL/4143' MSL. **Rwy 32**, antenna 53' from departure end of runway, 398' right of centerline, 20' AGL/4020' MSL.

SIDNEY, MT

SIDNEY-RICHLAND MUNI

TAKE-OFF MINIMUMS: **Rwy 28**, 400-2 or std. with a min. climb of 260' per NM to 2300.

SNOHOMISH, WA

HARVEY FIELD (S43)

ORIG 09127 (FAA)

TAKE-OFF MINIMUMS: **Rwys 15R, 33L**, NA-obstacles. **Rwy 15L**, std. w/ min. climb of 353' per NM to 1100, or 1200-2½ for climb in visual conditions. **Rwy 33R**, std. w/ min. climb of 475' per NM to 800, or 1200-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 15L**, climbing right turn on 344° course to WATON LOM, or for climb in visual conditions, cross Harvey Field at or above 1100 then proceed on 329° course to WATON LOM, thence... **Rwy 33R**, climb on 329° course to WATON LOM, or for climb in visual conditions, cross Harvey Field at or above 1100 then proceed on 329° course to WATON LOM, thence...

... aircraft departing WATON LOM on bearings 150° CW 340° from WATON LOM climb on course. Aircraft departing WATON LOM on bearings 340° CW 150° from WATON LOM, climb in holding pattern (South, left turns, 339° inbound) to cross WATON LOM at or above 4500 before proceeding on course.

NOTE: **Rwy 15L**, tree 81' from DER, 177' right of centerline, 40' AGL/106' MSL. Trees 685' from DER, left and right of centerline, up to 48' AGL/70' MSL. **Rwy 33R**, powerline 139' from DER, 226' left of centerline, 40' AGL/56' MSL. Tree 298' from DER, 205' right of centerline, 104' AGL/121' MSL. Tower 5708' from DER, 1956' right of centerline, 206' AGL/300' MSL.

SPOKANE, WA

FELTS FIELD (SFF)

AMDT 5 10098 (FAA)

TAKE-OFF MINIMUMS: **Rwy 3L**, std. w/min. climb of 450' per NM to 3600, or 2300-3 for climb in visual conditions. **Rwy 3R**, std. w/min. climb of 410' per NM to 3700, or 2300-3 for climb in visual conditions. **Rwy 21L**, std. w/min. climb of 375' per NM to 3200, or 2300-3 for climb in visual conditions. **Rwy 21R**, std. w/min. climb of 375' per NM to 3200, or 2300-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 3L, 3R**, climb heading 035° to 3600, then climbing right turn heading 210° and GEG R-050 to GEG VORTAC, or for climb in visual conditions: cross Felts Field Airport at or above 4100, then via heading 165° and GEG R-050 to GEG VORTAC. Cross GEG VORTAC at or above MCA/MEA for route of flight. **Rwys 21L, 21R**, climb heading 215° to 3200, then climbing left turn heading 190° and GEG R-050 to GEG VORTAC, or for climb in visual conditions: cross Felts Field Airport at or above 4100, then via heading 165° and GEG R-050 to GEG VORTAC. Cross GEG VORTAC at or above the MCA/MEA for route of flight.

NOTE: **Rwy 3L**, trees beginning 1853' from DER, 772' right of centerline, up to 100' AGL/2037' MSL. Trees beginning 3538' from DER, 529' left of centerline, up to 100' AGL/2339' MSL. Antenna, trees and transmission poles beginning 1.5 NM from DER, 16' left of centerline, up to 100' AGL/2579' MSL. Trees beginning 2.3 NM from DER, 723' right of centerline, up to 100' AGL/2499' MSL. **Rwy 3R**, hangar, NDB, and trees beginning 92' from DER, 269' right of centerline, up to 100' AGL/2040' MSL. Trees beginning 4685' from DER, 1033' left of centerline, up to 100' AGL/2339' MSL. Antenna, trees and transmission poles beginning 1.6 NM from DER, 525' left of centerline, up to 100' AGL/2559' MSL. Trees and transmission poles beginning 2.6 NM from DER, 214' right of centerline, up to 150' AGL/2570' MSL. **Rwy 21L**, elevator, pole on building and trees beginning 315' from DER, 302' left of centerline, up to 140' AGL/2080' MSL. **Rwy 21R**, poles and trees beginning 188' from DER, 13' right of centerline, up to 100' AGL/1982' MSL. Elevator, pole, hangar, and building beginning 203' from DER, 1' left of centerline, up to 140' AGL/2080' MSL. Terrain and trees beginning 3.1 NM from DER, 4904' left of centerline, up to 100' AGL/2559' MSL.

SPOKANE INTL

DEPARTURE PROCEDURE: **All aircraft** climb direct GEG VORTAC. Continue climb via R-208 within 10 miles to cross GEG VORTAC at or above: northeastbound V120-448, 5200; eastbound V2, 5200, southeast thru westbound climb on course.

STEVENSVILLE, MT

STEVENSVILLE

TAKE-OFF MINIMUMS: **Rwy 12**, do not exceed 210 knots until established on MSOR-163. **Rwy 30**, do not exceed 210 knots until established on MSOR-160.

DEPARTURE PROCEDURE: **Rwy 12**, climbing right turn via heading 335 and MSOR-163 to MSO VOR/DME climb in MSO VOR/DME holding pattern (southeast, right turn, 340° inbound) to 13000' before proceeding on course. **Rwy 30**, climbing right turn via heading 025° and MSOR-160 to MSO VOR/DME Climb in MSO VOR/DME holding pattern (southeast, right turn, 340° inbound) to 13000' before proceeding on course.

SUNRIVER, OR

SUNRIVER

TAKE-OFF MINIMUMS: **Rwy 18**, 300-1 or std. with a min. climb of 360' per NM to 4400. **Rwy 36**, 600-2 or std. with a min. climb of 240' per NM to 4900.

DEPARTURE PROCEDURE: **Rwy 18**, climb runway heading to 7000 then climbing left turn direct DSD VORTAC. **Rwy 36**, climb direct to DSD VORTAC. Then **all aircraft** climb on course.

TACOMA, WA

TACOMA NARROWS

TAKE-OFF MINIMUMS: **Rwy 35**, 400-1 or std. with a min. climb of 210' per NM to 400'.

DEPARTURE PROCEDURE: **Rwy 17**, turn right, climb via heading 230° to intercept OLM R-009 then direct OLM VORTAC. **Rwy 35**, turn left, climb via heading 270° to intercept SEA R-230 then direct CARRO INT. Continue climb in holding (SW, right turns, 047° inbound) to MEA or assigned altitude for route of flight.

THE DALLES, OR

COLUMBIA GORGE RGNL/THE DALLES MUNI

TAKE-OFF MINIMUMS: **Rwy 2**, CAT A,B 1100-2 or std. with a min. climb of 350' per NM to 1500. CAT C,D 2600-3 or std. with a min. climb of 475' per NM to 3100. **Rwy 7**, 900-3 or std. with a min. climb of 330' per NM to 1200. **Rwy 12**, 1400-3 or std. with a min. climb of 500' per NM to 2000. **Rwy 20**, 1800-3 or std. with a min. climb of 470' per NM to 2200. **Rwy 25**, NA. **Rwy 30**, 2900-3 or std. with a min. climb of 500' per NM to 2700.

DEPARTURE PROCEDURE: **Rwys 2,7**, climbing right turn heading 120°. **Rwy 12**, climb via runway heading. **Rwys 20, 30**, climbing left turn heading 120°. **All aircraft** intercept and climb southbound via LTJ R-165 to 3500. Then climbing left turn direct LTJ VORTAC. Continue climb in LTJ holding pattern (E, right turns, 260° inbound) to cross LTJ VORTAC at or above MCA or MEA for route of flight.

TILLAMOOK, OR

TILLAMOOK

TAKE-OFF MINIMUMS: **Rwys 1, 13, 19**, NA. **Rwy 31**, 2000-3 or std. with a min. climb of 350' per NM to 4500. DEPARTURE PROCEDURE: **Rwys 1, 13, 19**, NA. **Rwy 31**, use FETUJ RNAV DEPARTURE.

TORRINGTON, WY

TORRINGTON MUNI (TOR)

ORIG 10042 (FAA)

NOTE: **Rwy 2**, terrain 30' from DER, 277' left of centerline, 4197' MSL. **Rwy 10**, multiple trees and fence beginning 71' from DER, 143' right of centerline, up to 14' AGL/4214' MSL. Terrain 14' from DER, 502' left of centerline, 4199' MSL. **Rwy 28**, terrain 133' from DER, 386' right of centerline, 4213' MSL.

TWIN FALLS, ID

JOSLIN FIELD-MAGIC VALLEY RGNL

TAKE-OFF MINIMUMS: **Rwy 12**, NA.

DEPARTURE PROCEDURE: Aircraft departing on TWFR-240 CW R-080 climb on course. All others climb runway heading 6000 then climbing turn direct TWV VORTAC. Climb in holding pattern (NW, right turns, 113° inbound) to MCA or MEA as appropriate for direction of flight.

VANCOUVER, WA

PEARSON FIELD (VUO)

AMDT 2 07354 (FAA)

TAKE-OFF MINIMUMS: **Rwy 8**, std. w/ min. climb of 358' per NM to 600, or 500-3 w/ min. climb of 201' per NM to 600, or 900-2½ for climb in visual conditions.

Rwy 26, 600-3 or 900-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 8**, climb heading 079° to 500 then climbing left turn direct BTG VORTAC, thence... or for climb in visual conditions: cross Pearson Field at or above 800 MSL then proceed on BTG VORTAC R-179 to BTG VORTAC, thence... **Rwy 26**, climb heading 259° to 700 then climbing right turn direct BTG VORTAC, thence... or for climb in visual conditions: cross Pearson Field at or above 800 MSL then proceed on BTG VORTAC R-179 to BTG VORTAC, thence...

...continue climb in BTG VORTAC holding pattern (hold northwest, right turn, 149° inbound) to cross BTG VORTAC at or above MEA/MCA for route of flight.

NOTE: **Rwy 8**, tree 1.4 NM from departure end of runway, 1283' left of centerline, 100' AGL/395' MSL. Tree 1.7 NM from departure end of runway, 701' left of centerline, 100' AGL/401' MSL. Tree 2 NM from departure end of runway, 849' left of centerline, 100' AGL/406' MSL. Tree 2.4 NM from departure end of runway, 648' left of centerline, 100' AGL/399' MSL. **Rwy 26**, bridge 2704' from departure end of runway, 587' left of centerline, 243' AGL/245' MSL. Crane 1.5 NM from departure end of runway, 2563' right of centerline, 237' AGL/267' MSL. Transmission line tower 2.5 NM from departure end of runway, 2036' right of centerline, 516' AGL/534' MSL.

WALLA WALLA, WA

WALLA WALLA RGNL

DEPARTURE PROCEDURE: **Rwys 2, 7, 20, 25, 34**, turn left. **Rwy 16**, turn right. All aircraft climb to 2500 via ALW VOR/DME R-195, then climbing right turn direct ALW VOR/DME to cross ALW VOR/DME at or above MEA or MCA for route of flight.

NOTE: **Rwy 16**, antenna 365' from departure end of runway, 97' right of centerline, 1155' MSL. Terrain 1' from departure end of runway 140' left of centerline, 1145' MSL. **Rwy 20**, light 666' from departure end of runway, 640' left of centerline, 1170' MSL. **Rwy 34**, terrain 213' from departure end of runway, 230' right of centerline, 1130' MSL.

WEISER, ID

WEISER MUNI (S87)

ORIG 08269 (FAA)

TAKE-OFF MINIMUMS: **Rwy 12**, std. w/ min. climb of 310' per NM to 3900 or 2400-3 for climb in visual conditions. **Rwy 30**, std. w/ min. climb of 360' per NM to 4000 or 2400-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 12**, climb heading 121° to 3900 before proceeding on course. **Rwy 30**, climb heading 301° to 4000 before proceeding on course ... for climb in visual conditions: cross Weiser Muni airport at or above 4400 before proceeding on course.

NOTE: **Rwy 12**, tree 248' from departure end of runway, 443' right of centerline, 100' AGL/2184' MSL. **Rwy 30**, tree 1907' from departure end of runway, 769' right of centerline, 100' AGL/2174' MSL.

WENATCHEE, WA

PANGBORN MEMORIAL

TAKE-OFF MINIMUMS: **Rwy 7**, NA. **Rwy 12**, 1500-2 or std. with a min. climb of 510' per NM to 2900.

Rwys 25, 30, CAT A, B 1600-2 or std. with a min. climb of 360' per NM to 3100. CAT C, D 5500-3 or std. with a min. climb of 570' per NM to 7200.

DEPARTURE PROCEDURE: **Rwy 12**, climb runway heading. **Rwys 25, 30**, climbing left turn. All aircraft climb via EAT R-113 to 4000 then climbing left turn direct EAT VOR/DME. Aircraft departing EAT R-010 CW R-140 climb on course. All others continue climb in EAT VOR/DME holding pattern (E, right turns, 253° inbound) to cross EAT VOR/DME at or above: R-141 CW R-2007400; R-201 CW R-009, 8200.

WEST YELLOWSTONE, MT

YELLOWSTONE

TAKE-OFF MINIMUMS: **Rwy 19**, 2200-2 or std. with a min. climb of 245' per NM to 8900. FAR 135 AUTH:

Rwy 1, ½ mile.

DEPARTURE PROCEDURE: **Rwy 1**, turn right.

All aircraft climb direct TARGY LOM. Aircraft departing TARGY LOM on bearing 190° CW 220° climb on course. All others climb south on bearing 190° within 10 NM of TARGY LOM turn left and continue climbing direct TARGY LOM to cross TARGY LOM at or above: bearing 360° CW 190° 9300, bearing 220° CW 360° 10500

WHEATLAND, WY

PHIFER AIRFIELD

DEPARTURE PROCEDURE: **Rwy 8**, climbing left turn to 9000 via heading 030° to intercept IIP VOR/DME R-140° to JZZY Int, thence. . . **Rwy 26**, climbing right turn to 9000 via heading 360° and GYZ NDB course 051° to JZZY INT, thence. . .

. . . continue climb-in-hold (hold northwest, right turn, 140° inbound) to 9000 before proceeding on course.

NOTE: **Rwy 8**, multiple trees 512' from departure end of runway, 584' left of centerline, 100' AGL/4859' MSL.

Rwy 26, multiple trees, buildings, poles/lights, siren, roads w/ vehicles beginning 2' from departure end of runway, on centerline, to 488' left of centerline, 100' AGL/4899' MSL. Multiple trees, buildings, poles/lights, roads w/ vehicles beginning 2' from departure end of runway, on centerline to 499' right of centerline, 100' AGL/4859' MSL.

WHIDBEY ISLAND NAS (AULT FIELD) (NUW)

OAK HARBOR, WA. 07186

Diverse departures not authorized.

MILITARY DEPARTURE PROCEDURE: **Rwy 7**:

Minimum climb of 430'/NM until 600. Climbing left turn to 2000, intercept NUW R-067, expect radar vectors to join assigned route. **Rwy 14**: Climbing left turn to 2000, intercept NUW R-128, expect radar vectors to join assigned route. **Rwy 25**: Climb to 2000 via heading 249°, expect radar vectors to join assigned route. **Rwy 32**: Climb to 2000 via heading 317°, expect radar vectors to join assigned route. **ALL RWYS**: If vectors are not received by 10 DME of NUW TACAN, climb to 3000, intercept the NUW 11 DME ARC to join assigned route. CIVIL DEPARTURE PROCEDURE: **Rwy 7**: Minimum climb of 270'/NM until 700. Climbing left turn to 2000 via heading 067°, expect radar vectors to join assigned route. **Rwy 14**: Climbing left turn to 2000, via heading 128°, expect radar vectors to join assigned route. **Rwy 25**: Use published DP or climb to 2000 via heading 249°, expect radar vectors to join assigned route. **Rwy 32**: Climb to 2000 via heading 317°, expect radar vectors to join assigned route. **ALL RWYS**: If vectors are not received by 10 DME of NUW TACAN, climb to 3000, proceed direct CVV VOR/DME to join assigned route. TAKEOFF OBSTACLES: **Rwy 7**: Terrain, 7813' from DER, 2469' left of centerline, 276' MSL. Trees, 4274' from DER, 5472' left of centerline, 472' MSL. Trees, 5239' from DER, 6257' left of centerline, 495' MSL. Trees, 8561' from DER, 3685' left of centerline, 426' MSL. Trees, 12,561' from DER, 4814' right of centerline, 462' MSL. Terrain, 11,843' from DER, 7129' left of centerline, 502' MSL. Trees, 15,361' from DER, 4015' right of centerline, 521' MSL.

WORLAND, WY

WORLAND MUNI

TAKE-OFF MINIMUMS: **Rwys 4, 10, 22, 28**, NA.

Rwy 16, 300-2 or std. with a min. climb of 230' per NM to 4600.

DEPARTURE PROCEDURE: **All aircraft** climb to 5000, then direct RLY VOR/DME. Aircraft departing RLY R-061 CWR-349 climb on course. All others continue climb in RLY VOR/DME holding pattern (N, right turns, 159° inbound) to cross RLY VOR/DME at or above 7000.

YAKIMA, WA

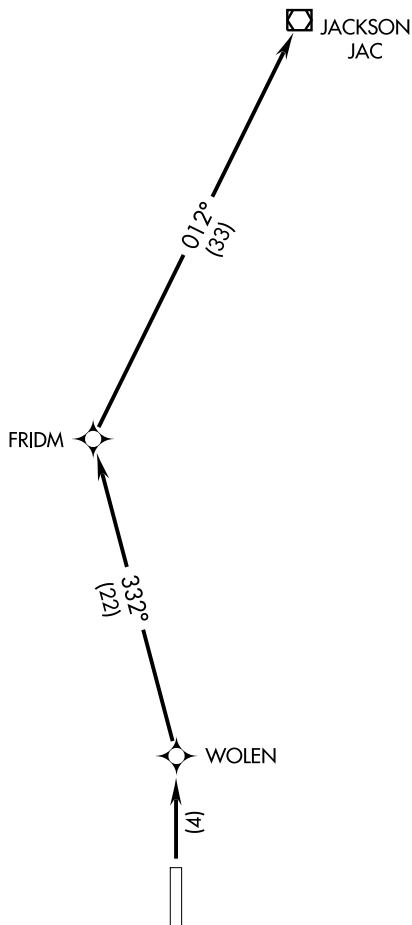
YAKIMA AIR TERMINAL/MCALLISTER FIELD

TAKE-OFF MINIMUMS: **Rwy 4**, NA. **Rwy 9**, 800-4 or std. with a min. climb of 300' per NM to 5000. **Rwys 22, 27**, 2500-3 or std. with a min. climb of 300' per NM to 5200.

DEPARTURE PROCEDURE: **Rwy 4**, NA. **Rwys 9, 22, 27**, Use ZILLA DEPARTURE PROCEDURE.

AFTON TWO DEPARTURE (RNAV) (OBSTACLE)

SALT LAKE CENTER
128.35 381.6
CASPER RADIO
122.3
CTAF 122.8



NOTE: Chart not to scale.

NOTE: 1. GPS Required.
2. RNAV 1

TAKE-OFF MINIMUMS

Rwy 34: Standard with minimum climb of 330 feet per NM to 10700.

Rwy 16: NA- Obstacles.

TAKE-OFF OBSTACLE NOTES

Rwy 34: Tree 1054 feet from DER, 605 feet right of centerline, 40' AGL/6241' MSL.

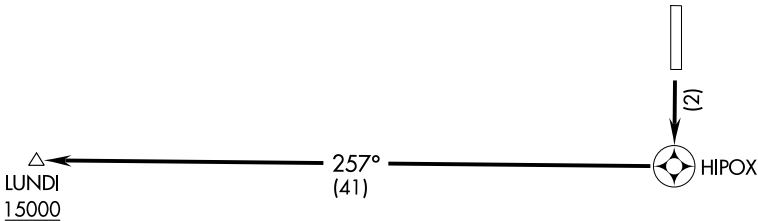
Tree 1703 feet from DER, 235 feet right of centerline, 40' AGL/6259' MSL.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 34: Climb to 13000 direct WOLEN, and via 332° track to FRIDM, then via 012° track to JAC VOR/DME.

SALT LAKE CENTER
128.35 381.6
CASPER RADIO
122.3
CTAF 122.8



TAKE-OFF MINIMUMS

Rwy 16: Standard with minimum climb of 515 feet per NM to 10400.
Rwy 34: NA- obstacles.

TAKE-OFF OBSTACLE NOTES

Rwy 16: Tree 1807 feet from DER, 298 feet right of centerline, 40' AGL/6277' MSL.

- NOTE: 1. GPS Required.
2. RNAV 1

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 16: Climb to 15000 direct HIPOX and right turn via 257° track to LUNDI.

APP CRS	Rwy Idg	7025
156°	TDZE	6188
	Apt Elev	6221

RNAV (GPS) RWY 16

AFTON MUNI (AFO)



DME/DME RNP -0.3 NA.

If local altimeter setting not received, procedure NA.
Circling NA east of Rwy 16-34.

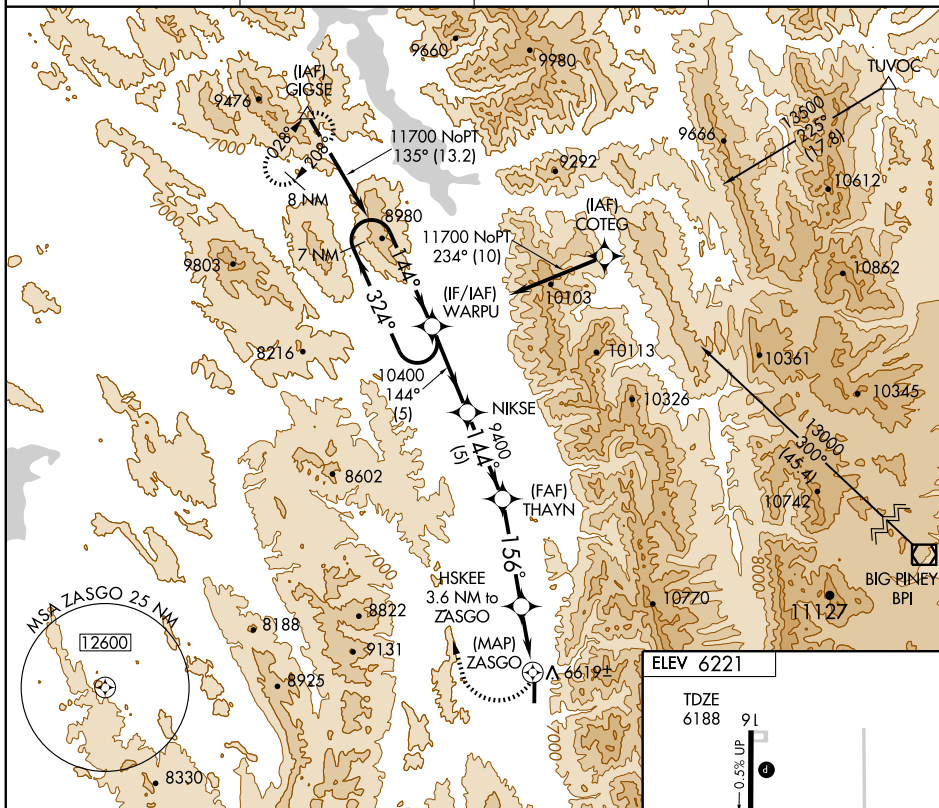
MISSED APPROACH: Climbing right turn to 11700 direct GIGSE and hold. When authorized by ATC, climb-in-hold to 15000

AWOS-3
119.025

SALT LAKE CENTER
128.35 381.6

CASPER RADIO
122.3

UNICOM
122.8 (CTAF) **L**



NW-1. 08 APR 2010 to 06 MAY 2010

7 NM Holding Pattern WARPU		NIKSE	THAYN	HSKEE 3.6 NM to ZASGO	11700 GIGSE
11700 ← 324° 144° →		144° 10400	2.99° TCH 47 9400 *	2.3 NM to ZASGO 156° 7520	ZASGO
5 NM		5 NM	5.9 NM	1.3	2.3 NM 0.5
CATEGORY	A	B	C	D	
LNAV MDA	7140-1¼ 952 (1000-1¼)	7140-1½ 952 (1000-1½)	7140-3 952 (1000-3)	NA	
CIRCLING	7140-1¼ 919 (1000-1¼)	7140-1½ 919 (1000-1½)	7140-3 919 (1000-3)	NA	

▼

NA

DME/DME RNP-0.3 NA.
Circling NA east of Rwy 16-34
Visibility reduction by helicopters NA.
If local altimeter setting not received, procedure NA.

MISSED APPROACH: Climbing left turn to 11500 direct IVAYU and hold.

AWOS-3 119.025	SALT LAKE CENTER 128.35 381.6	CASPER RADIO 122.3	UNICOM 122.8 (CTAF) ①
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Procedure NA for arrivals at MLD VOR/DME via V465 southwest bound and via V142 west bound.



ELEV 6221

91
→ 0.5% UP

7025 X 75

TDZE 6221

34
346° to RWY34

MIRL Rwy 16-34 ①
REIL Rwy 16 and 34 ①

7 NM Holding Pattern

CAALL

ALLRD

POKEE 8 NM to RWY34

PITSZ 6 NM to RWY34

4.3 NM to RWY34

3.76° TCH 45

11500

166°

346°

10100

9300

8660

9.6 NM

2 NM

2 NM

1.7 NM

4.3 NM

11500 IVAYU

VGSI and descent angles not coincident

CATEGORY	A	B	C	D
RNAV MDA	7620-1¼ 1399 (1400-1¼)	7620-1½ 1399 (1400-1½)	7620-3 1399 (1400-3)	NA
CIRCLING	7620-1¼ 1399 (1400-1¼)	7620-1½ 1399 (1400-1½)	7620-3 1399 (1400-3)	NA

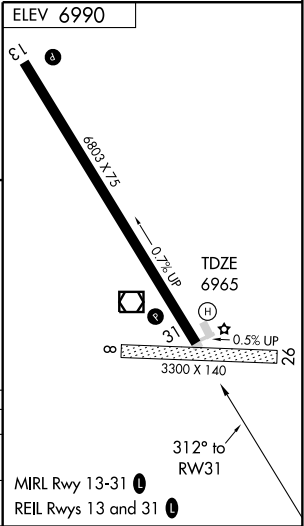
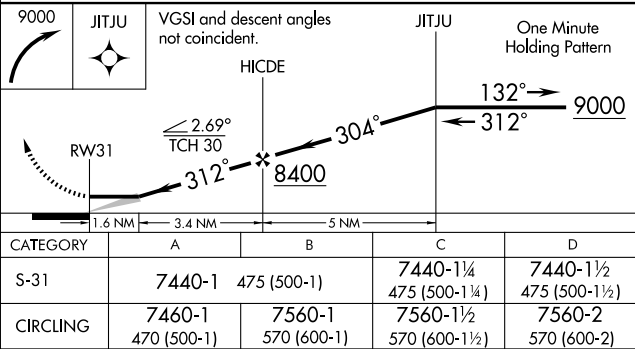
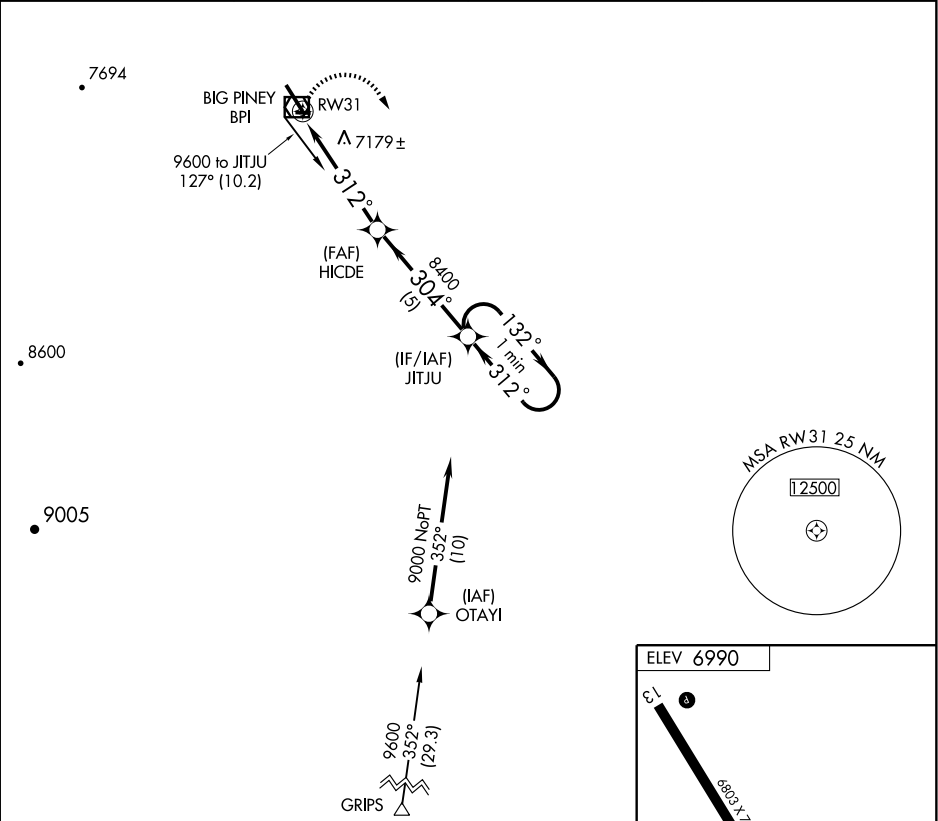
NW-1, 08 APR 2010 to 06 MAY 2010

GPS RWY 31

BIG PINEY/ MILEY MEMORIAL FIELD (BPI)

APP CRS	Rwy Idg	6803
312°	TDZE	6965
	Apt Elev	6990

<div><div></div><div>NA</div></div>		MISSED APPROACH: Climbing right turn to 9000 direct JITJU and hold.	
ASOS 135.225	CASPER RADIO 122.3	UNICOM 122.8 (CTAF)	122.7 1



VOR/DME BPI <u>116.5</u> Chan 112	APP CRS 298°	Rwy Idg 6803 TDZE 6965 Apt Elev 6990
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VOR RWY 31

BIG PINEY/ MILEY MEMORIAL FIELD (BPI)



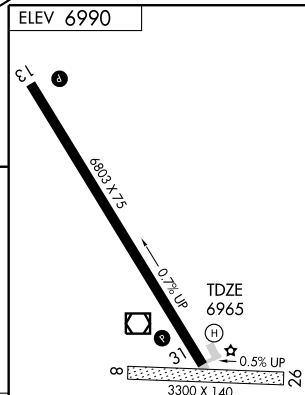
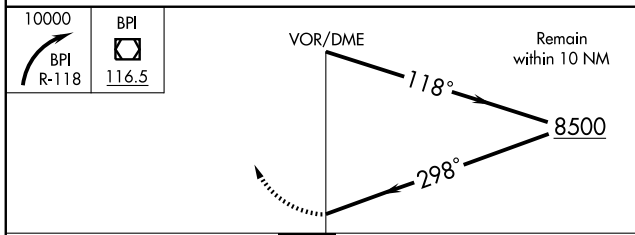
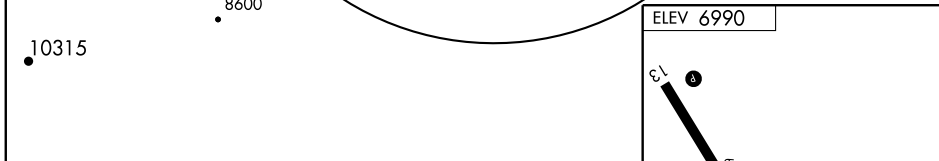
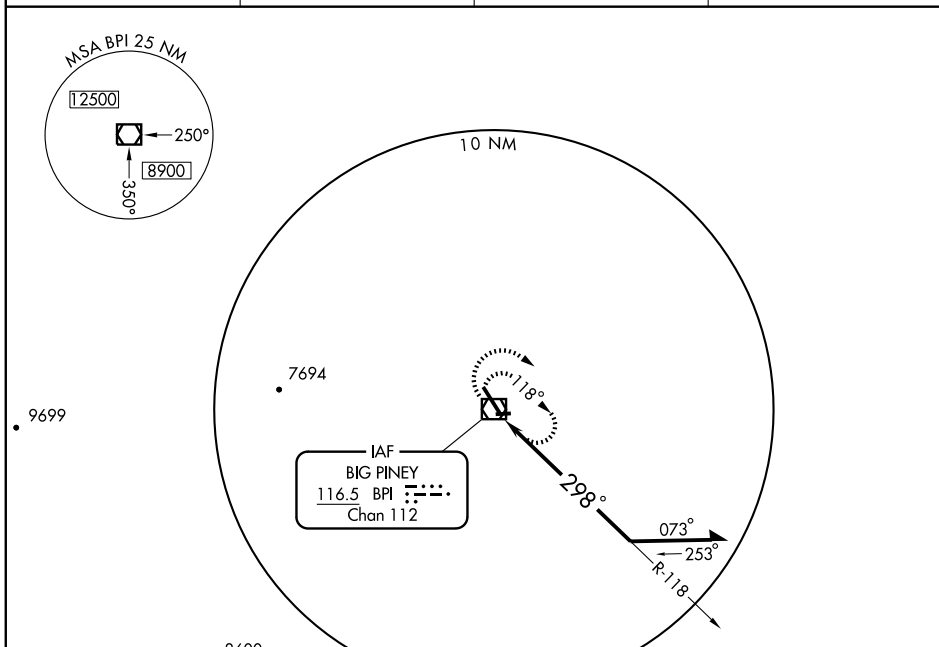
MISSED APPROACH: Climbing right turn to 10000 on BPI R-118, then return to BPI VOR/DME and hold.

ASOS
135,225

CASPER RADIO
122.3

UNICOM
122.8 (CTAF)

122.7 L



CATEGORY	A	B	C	D
S-31	7680-1	715 (700-1)	7680-2 715 (700-2)	7680-2¼ 715 (700-2¼)
CIRCLING	7680-1	690 (700-1)	7680-2 690 (700-2)	7680-2¼ 690 (700-2¼)

MIRL Rwy 13-31 **L**
REIL Rwys 13 and 31 **L**

APP CRS	Rwy Idg	6143
306°	TDZE	4937
	Apt Elev	4968

RNAV (GPS) RWY 31

BUFFALO/JOHNSON COUNTY (BYG)

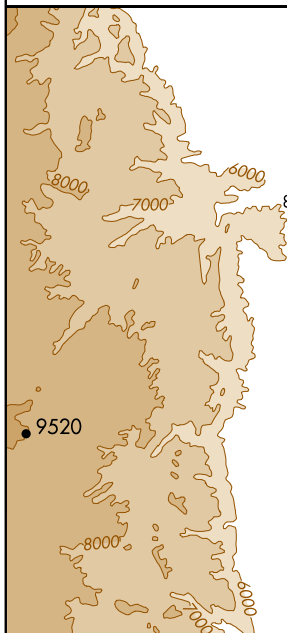
T Visibility reduction by helicopters NA. If local altimeter setting not received, use Sheridan altimeter setting and increase all MDAs 600 feet. DME/DME RNP-0.3 NA. Procedure NA at night.

MISSED APPROACH: Climbing right turn to 7400 direct ONECI and hold.

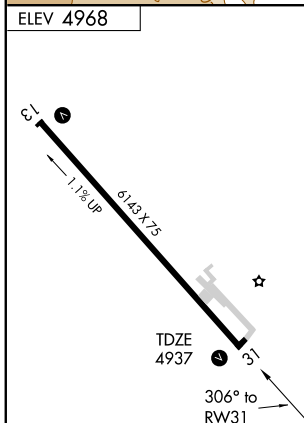
ASOS
135,425

CASPER RADIO
122.025

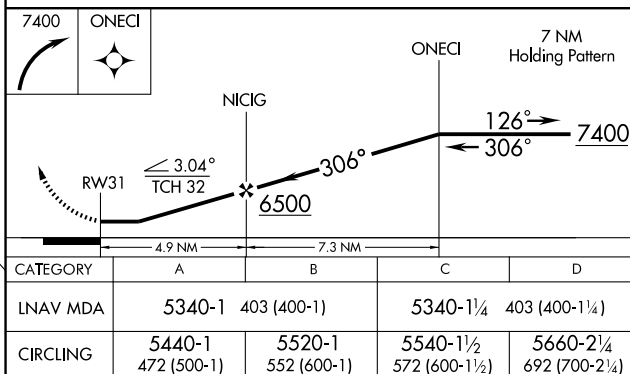
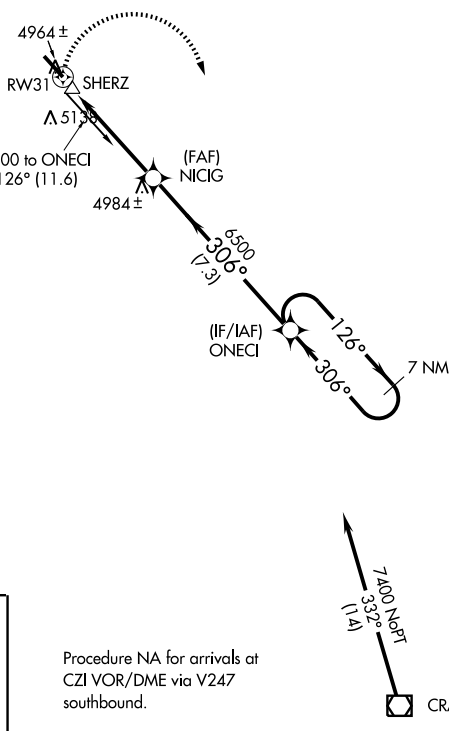
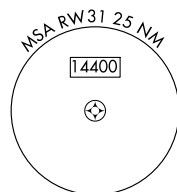
UNICOM
122.8 (CTAF) **L**



ELEV 4968



Procedure NA for arrivals at
CZI VOR/DME via V247
southbound.



REIL Rwy 31 **L**
MIRL Rwy 13-31 **L**

VOR/DME CZI 117.3 Chan 120	APP CRS 319°	Rwy Idg 6143 TDZE 4937 Apt Elev 4968
--	------------------------	---

VOR/DME RWY 31
BUFFALO/JOHNSON COUNTY (BYG)

T Visibility reduction by helicopters NA. If local altimeter setting not received, use Sheridan altimeter setting and increase all

A MDAs 600 feet. When VGSI inoperative, procedure NA at night.

MISSED APPROACH: Climbing right turn to 7600 via heading 160° and CZI VOR/DME R-319 to MIZNR/14 DME and hold.

ASOS
135,425

CASPER RADIO
122.025

UNICOM
122.8 (CTAF) **L**

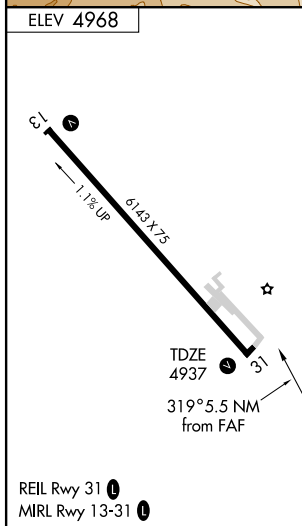
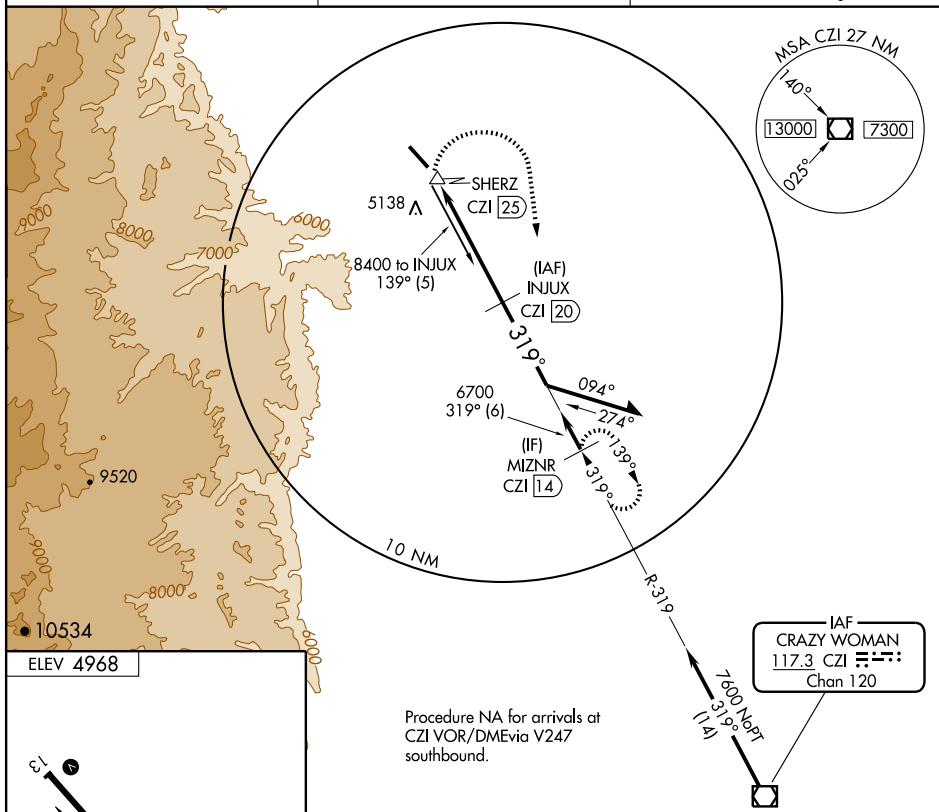


Diagram illustrating the flight path from ZEDRI to INJUX:

- ZEDRI** (CZI 25.2) is the starting point.
- The initial heading is **hdg 160°**.
- A distance of **0.4** NM is covered before the heading changes to **319°**.
- A distance of **5.1 NM** is covered from the heading change point to **INJUX** (CZI 20).
- The final heading at INJUX is **739°**.
- A note indicates "Remain within 10 NM".

CATEGORY	A	B	C	D
S-31	5680-1 743 (800-1)	5680-1¼ 743 (800-1¼)	5680-2¼ 743 (800-2¼)	5680-2½ 743 (800-2½)
CIRCLING	5680-1 712 (800-1)	5680-1¼ 712 (800-1¼)	5680-2¼ 712 (800-2¼)	5680-2½ 712 (800-2½)

AIRPORT DIAGRAM

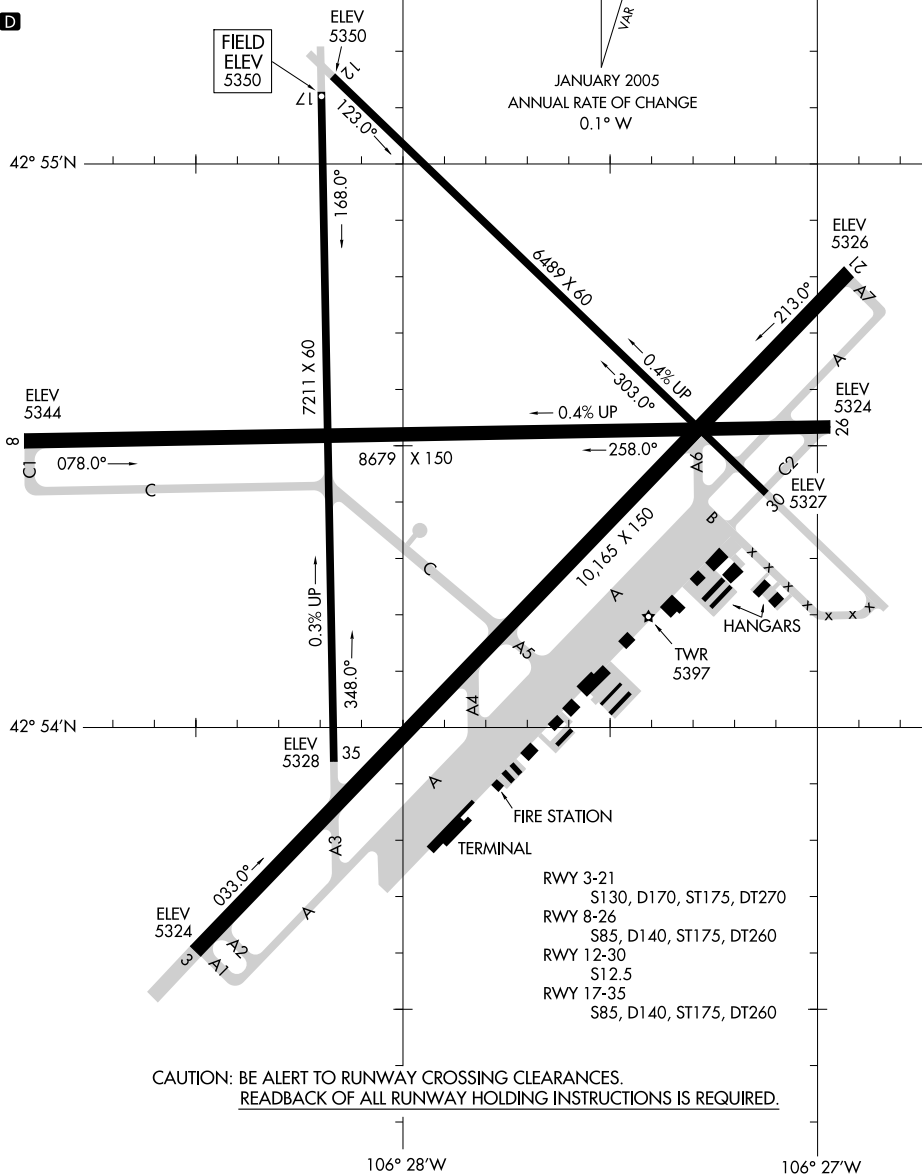
AL-72 (FAA)

CASPER/NATRONA COUNTY INTL (CPR)

CASPER, WYOMING

ATIS
126.15
CASPER TOWER★
118.3 257.8
GND CON
121.9
CLNC DEL
121.9 257.8

D



NW-1, 08 APR 2010 to 06 MAY 2010

ALCOS THREE DEPARTURE

SL-72 (FAA)

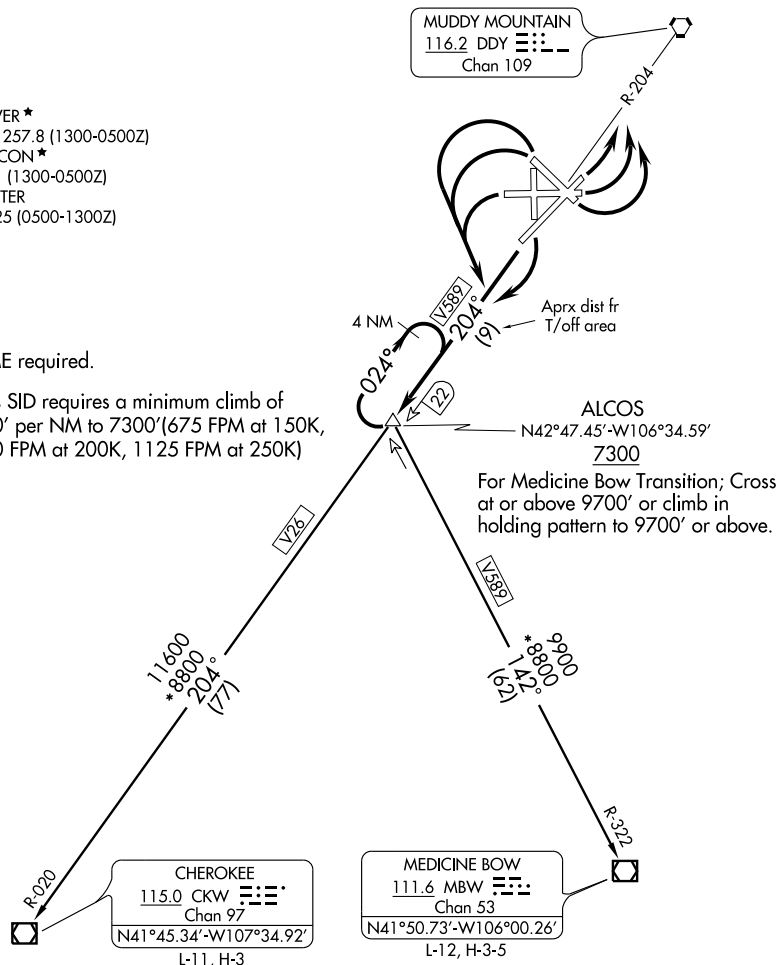
CASPER/NATRONA COUNTY INTL (CPR)

CASPER, WYOMING

ATIS 126.15
 CLNC DEL
 121.9 257.8
 GND CON
 121.9 257.8
 CASPER TOWER ★
 118.3 (CTAF) 257.8 (1300-0500Z)
 CASPER DEP CON ★
 120.65 354.1 (1300-0500Z)
 DENVER CENTER
 135.6 363.025 (0500-1300Z)

NOTE: DME required.

NOTE: This SID requires a minimum climb of
 270' per NM to 7300' (675 FPM at 150K,
 900 FPM at 200K, 1125 FPM at 250K)



NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 17: Turn right, thence. . . .

ALL OTHER RUNWAYS: Turn left, thence. . . .

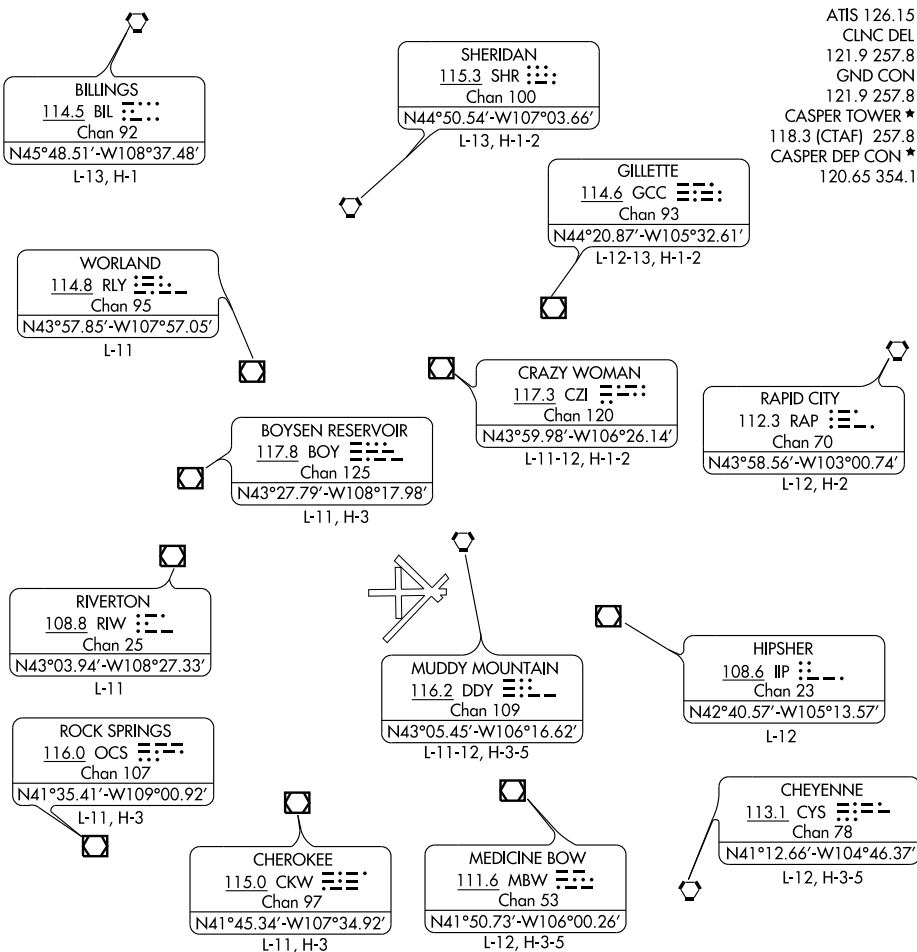
. . . climb via DDD R-204 to cross ALCOS INT at or above 7300', then via (transition) or (assigned route).

CHEROKEE TRANSITION (ALCOS3.CKW): Via DDD R-204 and V26 to CKW VOR/DME.

MEDICINE BOW TRANSITION (ALCOS3.MBW): Via MBW R-322 to MBW VOR/DME.
 Cross ALCOS INT at or above 9700' or climb in holding pattern to 9700' or above.

CASPER ONE DEPARTURE

SL-72 (FAA)

CASPER/NATRONA COUNTY INTL (CPR)
CASPER, WYOMING

ATIS 126.15
CLNC DEL
121.9 257.8
GND CON
121.9 257.8
CASPER TOWER ★
118.3 (CTAF) 257.8
CASPER DEP CON ★
120.65 354.1

NOTE: Aircraft departing Runways 12 and 17 will be issued departure instructions by clearance delivery/ground control.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

All aircraft fly runway heading for radar vectors to filed/assigned fix/route. Maintain 14,000 feet or assigned lower altitude. Expect further clearance to filed altitude ten minutes after departure.

LOST COMMUNICATIONS: If no transmissions are received for one minute after departure, maintain runway heading until 7,000 feet, then climb to filed altitude via direct DDY VORTAC, then via assigned fix/route. Runways 3 and 8 turn left to DDY VORTAC, all others turn right to DDY VORTAC.

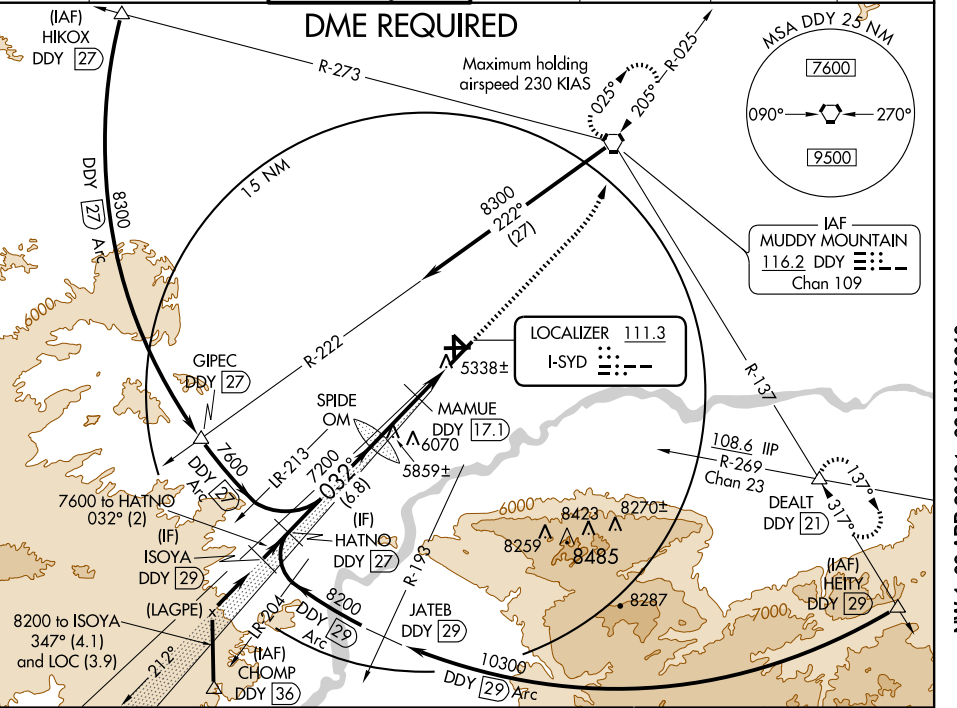
LOC I-SYD	APP CRS	Rwy Idg	10165
111.3	032°	TDZE	5328
		Apt Elev	5350

For inoperative MALS, increase S-ILS-3 Cat E visibility to RVR 4000, S-LOC-3 Cat E visibility to 3. MAMUE FIX MINIMUMS: For inoperative MALS, increase S-LOC-3 Cats D and E visibility to 1. DME from DDY VORTAC, simultaneous reception of I-SYD and DDY DME required. # RVR 1800 authorized with the use of FD or AP or HUD to DA.

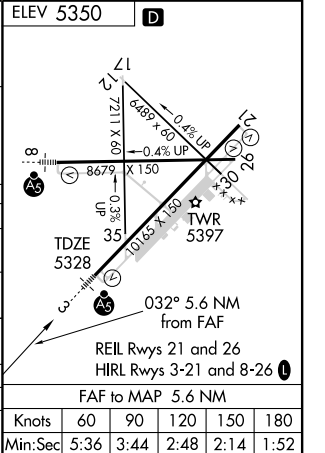
MALS

MISSED APPROACH: Climb to 7500 then left turn direct DDY VORTAC and hold. (TACAN aircraft continue climb to 12000 via DDY VORTAC R-137 to DEALT/DDY 21 DME and hold SE, right turn, 317° inbound).

ATIS	CASPER APP CON	CASPER TOWER	GND CON	CLNC DEL	CASPER RADIO	UNICOM
126.15	120.65 354.1	118.3 (CTAF) 257.8	121.9	121.9 257.8	122.4	122.95



Procedure	ISOYA	HATNO	SPIDE OM	MAMUE	DDY
Turn	DDY 29	DDY 27		DDY 17.1	DDY 116.2
NA					
8200	032°	7600	7200	7188	7500
GS 3.00°					
TCH 53					
	2 NM	6.8 NM	3.2 NM	2.4 NM	
CATEGORY	A	B	C	D	E
S-ILS 3	# 5528/24 200 (200-½)				5528/24 200 (200-½)
S-LOC 3	6140/24 812 (800-½)	6140/40 812 (800-¾)	6140-2 812 (800-2)	6140-2 ½ 812 (800-2 ¼)	6140-2 ½ 812 (800-2 ½)
CIRCLING	6140-1 790 (800-1)	6140-1 ¼ 790 (800-1 ¼)	6140-2 ½ 790 (800-2 ½)	6140-2 ¾ 790 (800-2 ¾)	6220-3 870 (900-3)
MAMUE FIX MINIMUMS					
S-LOC 3	5600/24 272 (300-½)		5600/40 272 (300-¾)		
CIRCLING	5780-1 430 (500-1)	5800-1 450 (500-1)	5800-1 ½ 450 (500-1 ½)	5900-2 550 (600-2)	6220-3 870 (900-3)



NW-1, 08 APR 2010 to 06 MAY 2010

LOC I-CPR	APP CRS	Rwy Idg TDZE	8679 5344
110.3	077°	Apt Elev	5350

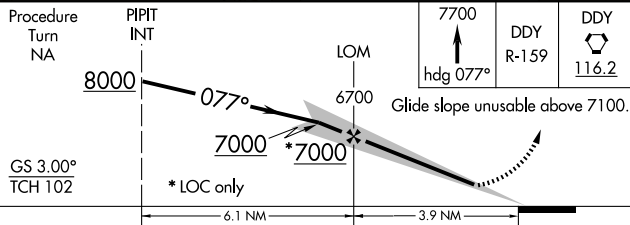
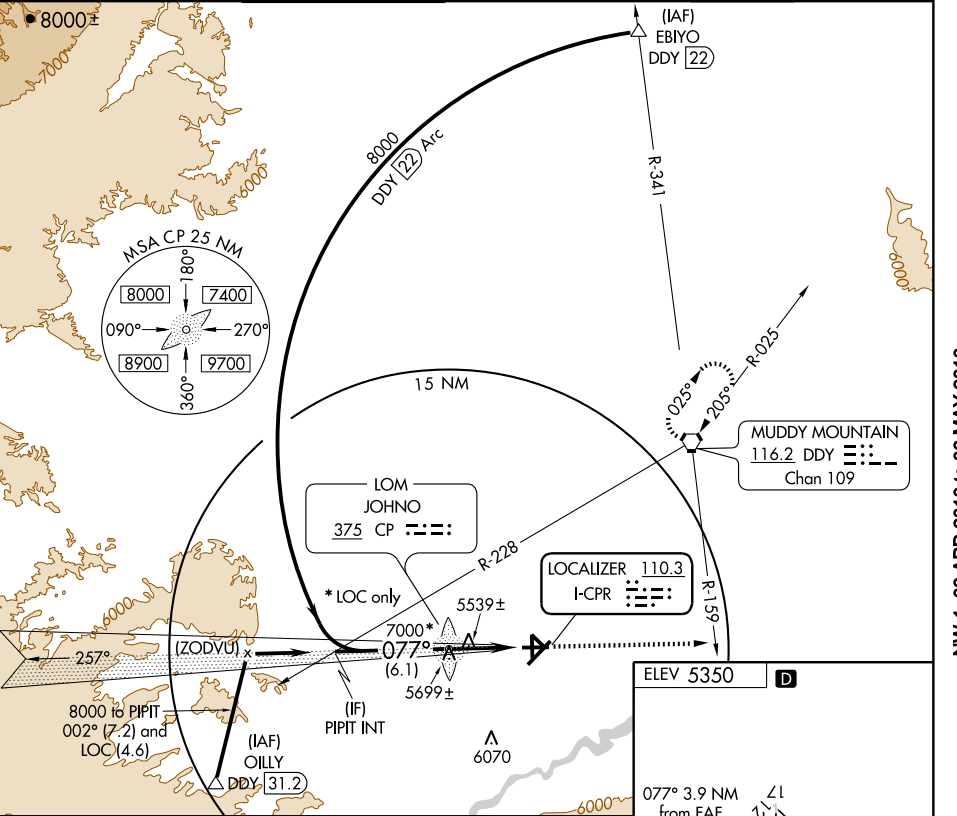
▼

Inoperative table does not apply to S-ILS 8.

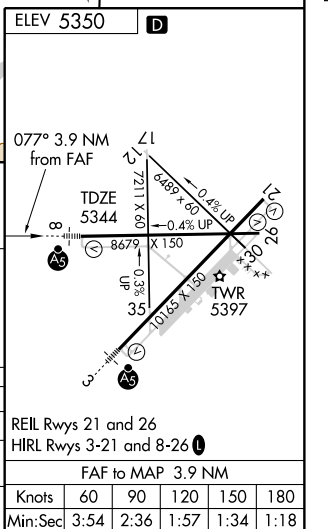
MALSR

MISSED APPROACH: Climb to 7700 via heading 077° and DDD VORTAC R-159 to DDD VORTAC and hold.

ATIS	CASPER APP CON*	CASPER TOWER*	GND CON	CLNC DEL	CASPER RADIO	UNICOM
126.15	120.65 354.1	118.3 (CTAF) 0 257.8	121.9	121.9 257.8	122.4	122.95



CATEGORY	A	B	C	D
S-ILS 8	5644/40 300 (300-3/4)			NA
S-LOC 8	5800/24 456 (500-1/2)		5800/40 456 (500-3/4)	NA
CIRCLING	5800-1 450 (500-1)		5800-1 1/2 450 (500-1 1/2)	NA



NW-1. 08 APR 2010 to 06 MAY 2010

WAAS CH 73006 W03A	APP CRS 032°	Rwy Idg TDZE Apt Elev 10165 5328 5350
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RNAV (GPS) RWY 3

CASPER/NATRONA COUNTY INTL (CPR)

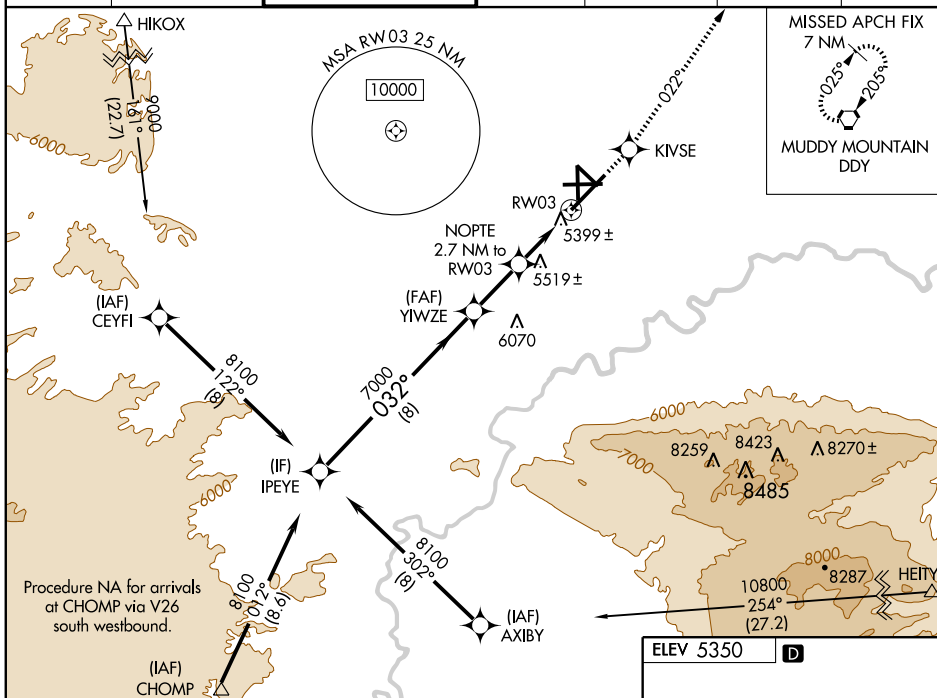
▼ For inoperative MALS, increase LPV all Cats visibility to 1 mile.
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -25°C (-13°F) or above 38°C (100°F).
DME/DME RNP-0.3 NA.

MALS

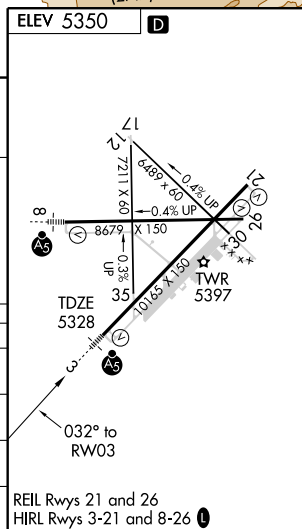


MISSED APPROACH: Climb to 7500
direct KIVSE and via track 022° to
DDY VORTAC and hold.

ATIS 126.15	CASPER APP CON* 120.65 354.1	CASPER TOWER* 118.3 (CTAF) 0 257.8	GND CON 121.9	CLNC DEL 121.9 257.8	CASPER RADIO 122.4	UNICOM 122.95
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IPEYE		YIWZE		RWY 03	
8100		7000		*6240	
GS 3.00°		TCH 52		*LNAV only	
8 NM		2.3 NM		1.4 NM	
1.3 NM		1.3 NM			
CATEGORY	A	B	C	D	
LPV DA	5643/24		315 (300-½)		
LNAV/VNAV DA	5691/40		363 (400-¾)		
LNAV MDA	5780/24	452 (500-½)	5780/40	5780/50	
			452 (500-¾)	452 (500-1)	
CIRCLING	5780-1	5800-1	5800-1½	5900-2	
	430 (500-1)	450 (500-1)	450 (500-1½)	550 (600-2)	



AL-72 (FAA)

WAAS CH 86306 W08A	APP CRS 077°	Rwy Idg 8679 TDZE 5344 Apt Elev 5350
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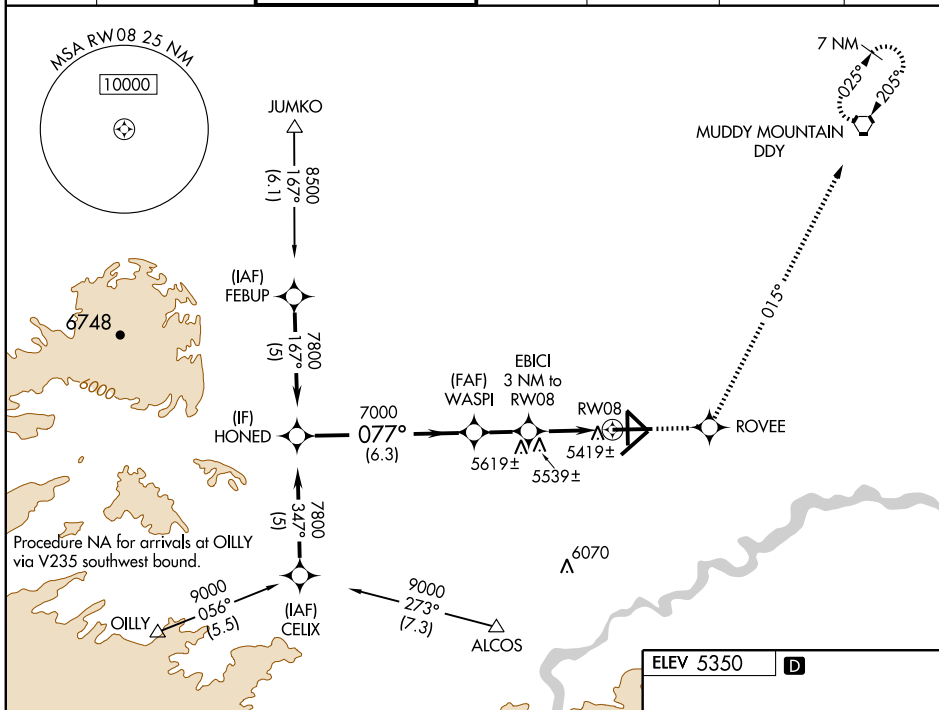
RNAV (GPS) RWY 8
CASPER/NATRONA COUNTY INTL (CPR)

T For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -25°C (-13°F) or above 38°C (100°F).
DME/DME RNP-0.3 NA.

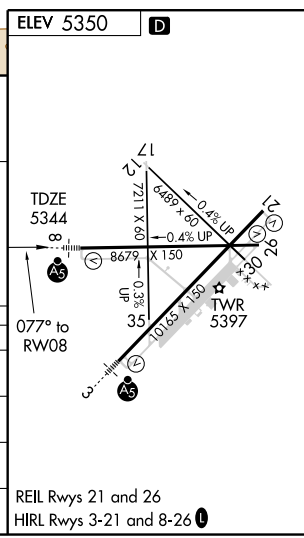
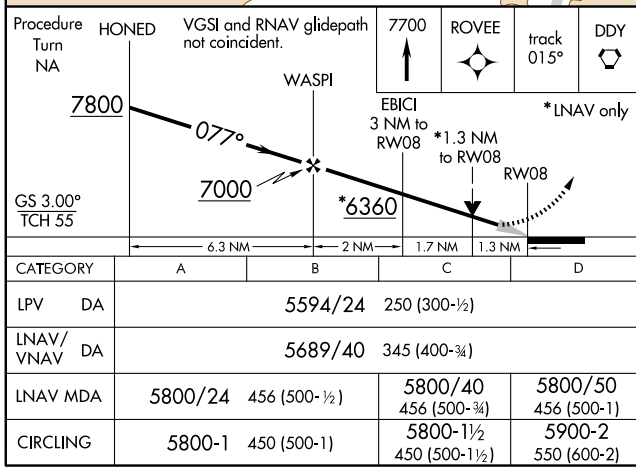
MALSR

MISSED APPROACH: Climb to 7700 direct ROVEE and via track 015° to DDY VORTAC and hold.

ATIS	CASPER APP CON ★	CASPER TOWER ★	GND CON	CLNC DEL	CASPER RADIO	UNICOM
126.15	120.65 354.1	118.3 (CTAF) 0257.8	121.9	121.9 257.8	122.4	122.95



NW-1. 08 APR 2010 to 06 MAY 2010



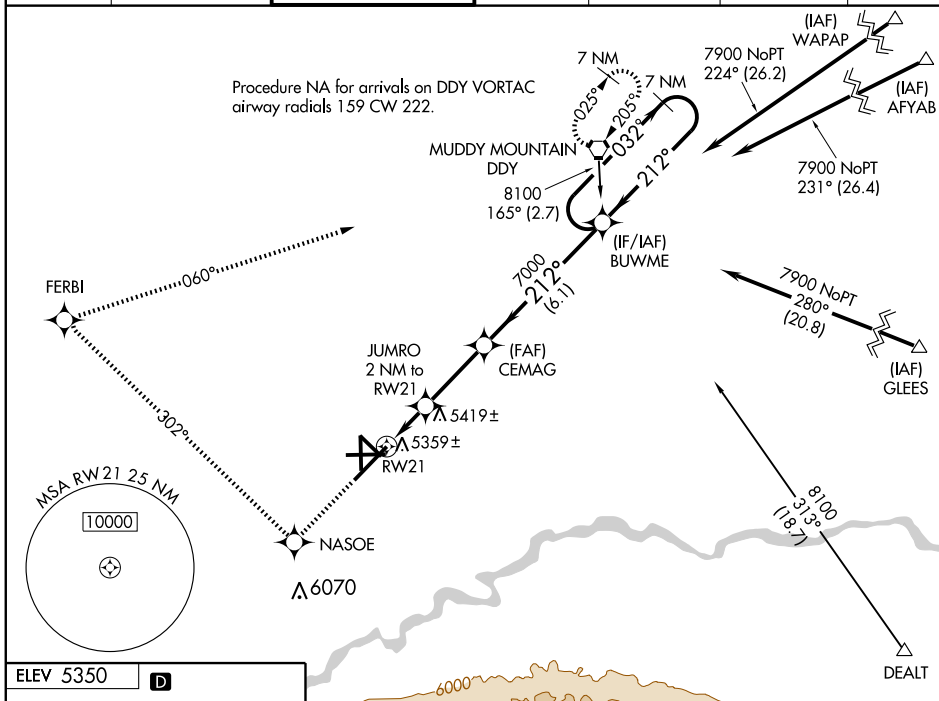
WAAS CH 63012 W21A	APP CRS 212°	Rwy Idg 10165 TDZE 5330 Apt Elev 5350
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RNAV (GPS) RWY 21
CASPER/NATRONA COUNTY INTL (CPR)

T For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -25°C (-13°F) or above 38°C (100°F).
DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 8100 direct NASOE and right turn via track 302° to FERBI and via track 060° to DDY VORTAC and hold.

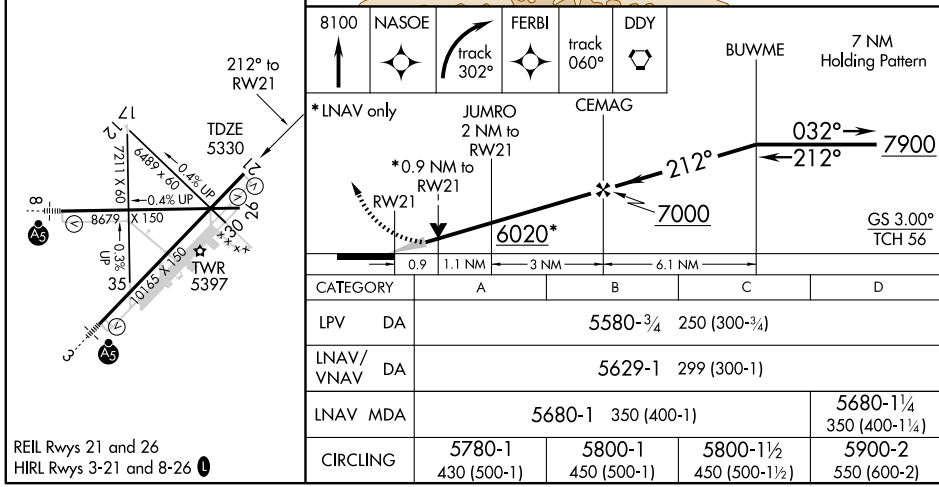
ATIS 126.15	CASPER APP CON ★ 120.65 354.1	CASPER TOWER ★ 118.3 (CTAF) 0 257.8	GND CON 121.9	CLNC DEL 121.9 257.8	CASPER RADIO 122.4	UNICOM 122.95
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NW-1. 08 APR 2010 to 06 MAY 2010

ELEV 5350

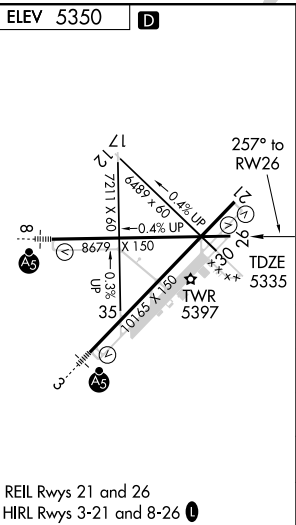
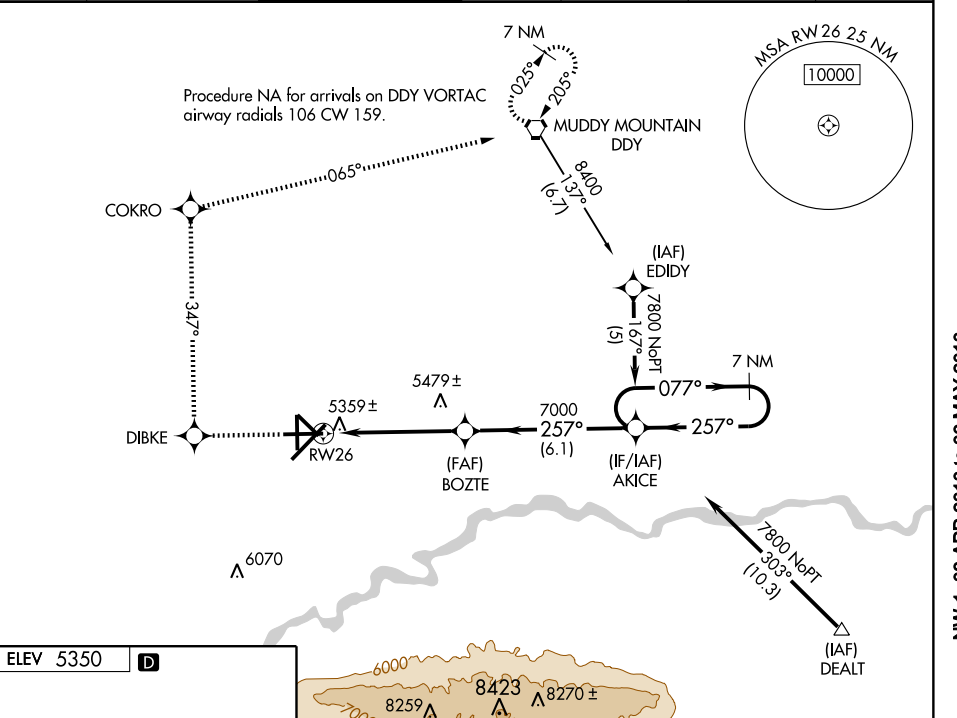
D



⚠ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -25°C (-13°F) or above 38°C (100°F).
DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 8400 direct DIBKE and right turn via track 347° to COKRO and via track 065° to DDY VORTAC and hold.

ATIS 126.15	CASPER APP CON ★ 120.65 354.1	CASPER TOWER ★ 118.3 (CTAF) 0 257.8	GND CON 121.9	CLNC DEL 121.9 257.8	CASPER RADIO 122.4	UNICOM 122.95
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8400	DIBKE	COKRO	DDY	AKICE	7 NM Holding Pattern
	track 347°	track 065°			
*LNAV only					
	BOZTE				
	*1.2 NM to RWY 26				
	1.2 NM	3.9 NM	6.1 NM		
					GS 3.00° TCH 40
CATEGORY	A	B	C	D	
LPV DA	5585-1 250 (300-1)				
LNAV/VNAV DA	5629-1 294 (300-1)				
LNAV MDA	5740-1 405 (400-1)		5740-1¼ 405 (400-1¼)		
CIRCLING	5780-1 430 (500-1)	5800-1 450 (500-1)	5800-1½ 450 (500-1½)	5900-2 550 (600-2)	

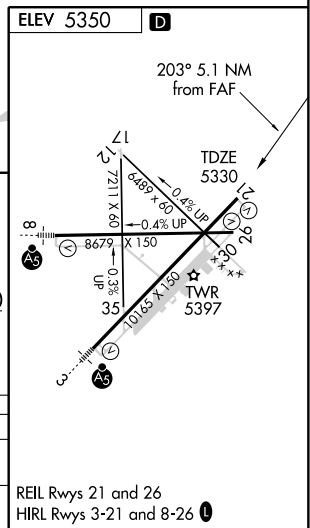
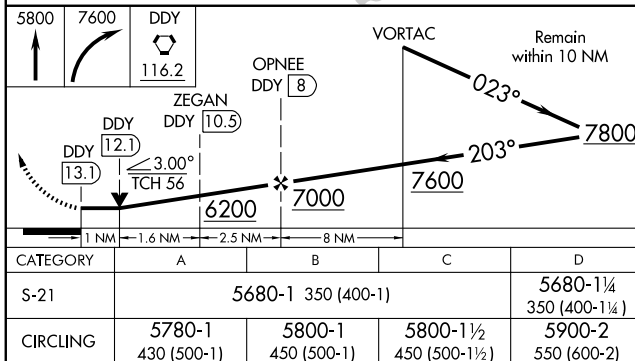
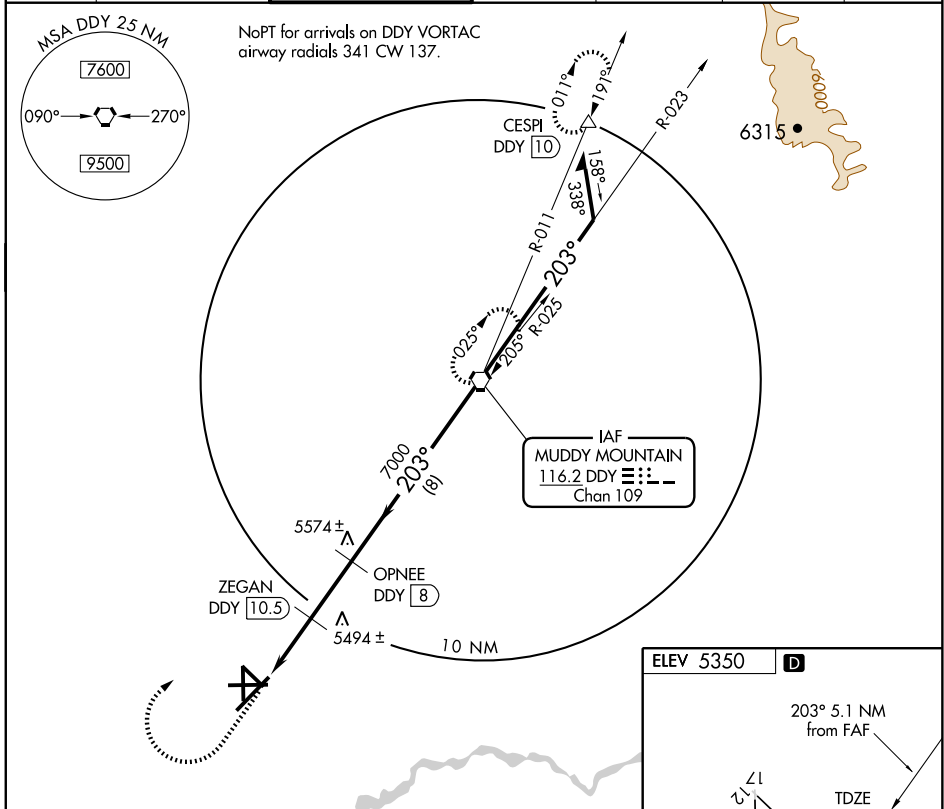
AL-72 (FAA)

VORTAC DDY <u>116.2</u> Chan 109	APP CRS 203°	Rwy Idg 10165 TDZE 5330 Apt Elev 5350
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VOR/DME or TACAN RWY 21
CASPER/NATRONA COUNTY INTL (CPR)

MISSED APPROACH: Climb to 5800, then climbing right turn to 7600 direct DDY VORTAC and hold (TACAN aircraft continue climb to 8000 via DDY VORTAC R-011 to CESPI/10 DME and Hold N, RT, 191° inbound).

ATIS 126.15	CASPER APP CON ★ 120.65 354.1	CASPER TOWER ★ 118.3 (CTAF) 0 257.8	GND CON 121.9	CLNC DEL 121.9 257.8	CASPER RADIO 122.4	UNICOM 122.95
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NW-1. 08 APR 2010 to 06 MAY 2010

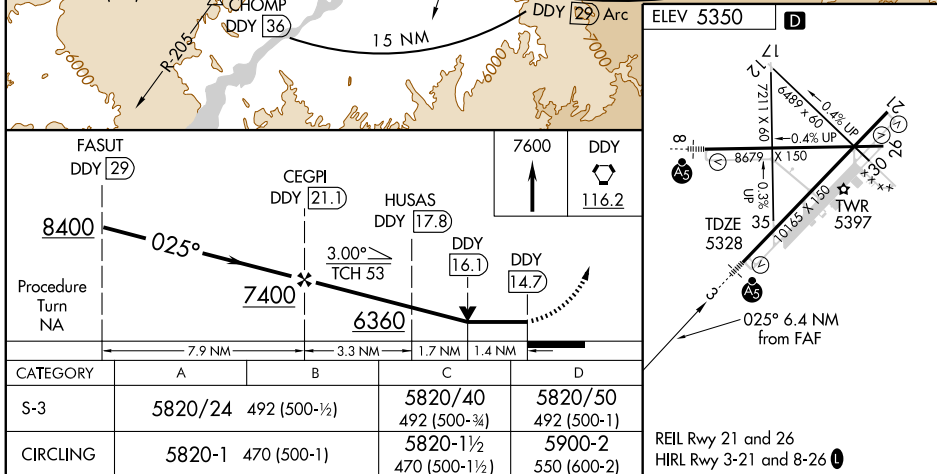
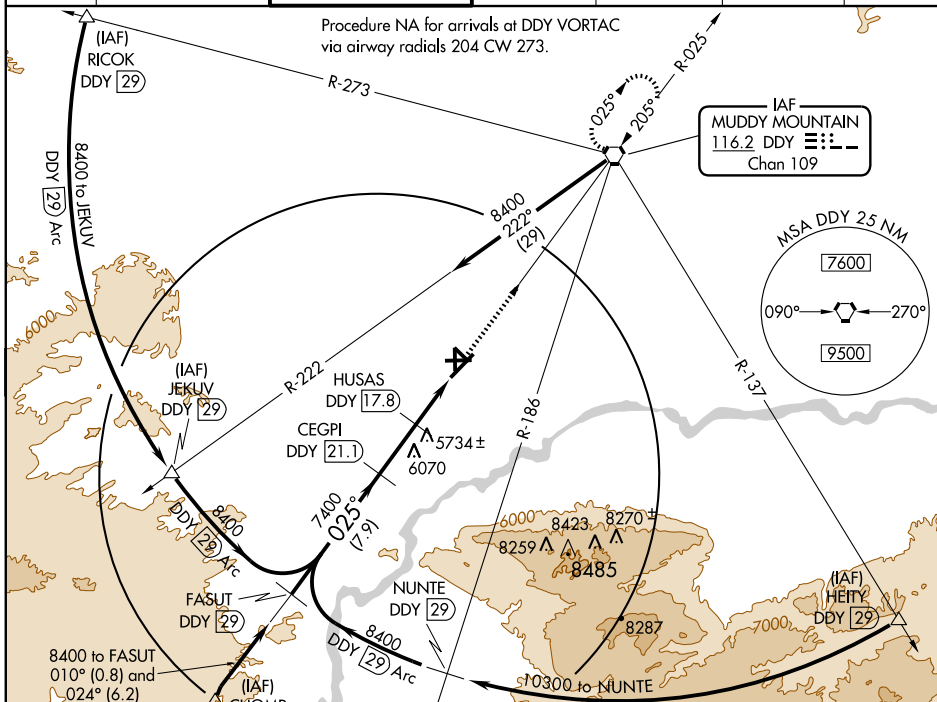
VORTAC DDD 116.2 Chan 109	APP CRS 025°	Rwy Idg TDZE Apt Elev 5350	10165 5328
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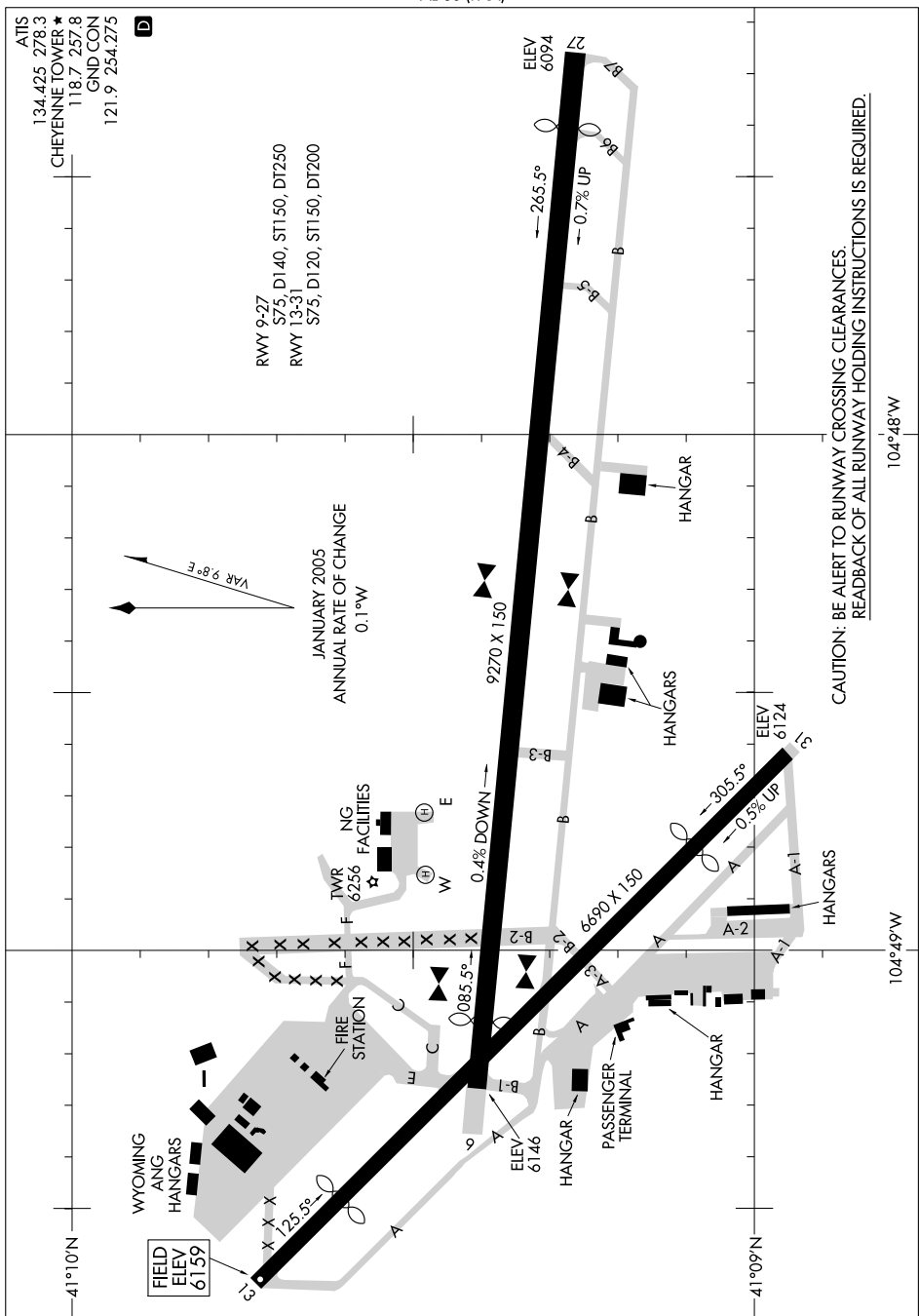
VOR/DME RWY 3

CASPER/NATRONA COUNTY INTL (CPR)

		MALS R 	MISSED APPROACH: Climb to 7600 direct DDD VORTAC and hold.
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ATIS 126.15	CASPER APP CON ★ 120.65 354.1	CASPER TOWER ★ 118.3 (CTAF) 0 257.8	GND CON 121.9	CLNC DEL 121.9 257.8	CASPER RADIO 122.4	UNICOM 122.95
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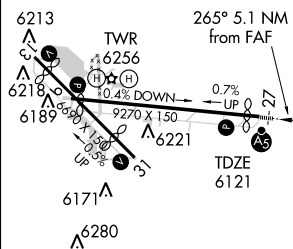




ILS or LOC RWY 27

CHEYENNE RGNL/JERRY OLSON FIELD (CYS)

MISSED APPROACH: Climb to 6700, then climbing right turn to 8000 direct CYS VORTAC and hold. (TACAN aircraft continue via CYS R-016 to MARKL/10 DME and hold N, RT, 196° inbound.)

UNICOM
122.95




REIL Rwy 9, 13 and 31 **L**
HIRL Rwy 9-27 **L**
MIRL Rwy 13-31 **L**

FAF to MAP 5.1 NM					
Knots	60	90	120	150	180
Min:Sec	5:06	3:24	2:33	2:02	1:42

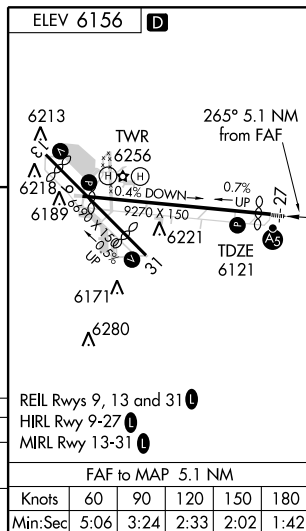
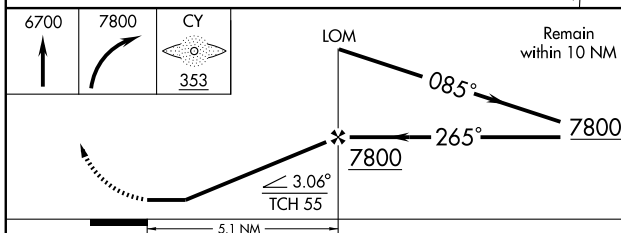
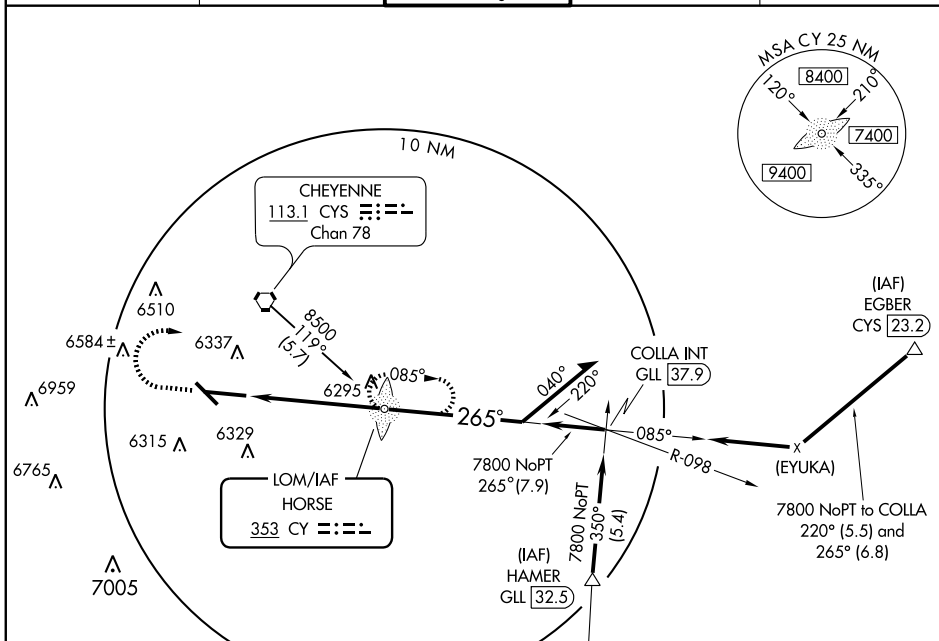
AL-80 (FAA)

LOM CY <u>353</u>	APP CRS 265°	Rwy Idg TDZE Apt Elev	7985 6121 6156
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NDB RWY 27
CHEYENNE RGNL/JERRY OLSON FIELD (CYS)

  ASR/PAR	MALSR 	MISSED APPROACH: Climb to 6700, then climbing right turn to 7800 direct HORSE LOM and hold.
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ATIS 134.425 278.3	CHEYENNE APP CON 124.55 263.075	CHEYENNE TOWER ★ 118.7 (CTAF) 0 257.8	GND CON 121.9 254.275	UNICOM 122.95
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NW-1. 08 APR 2010 to 06 MAY 2010

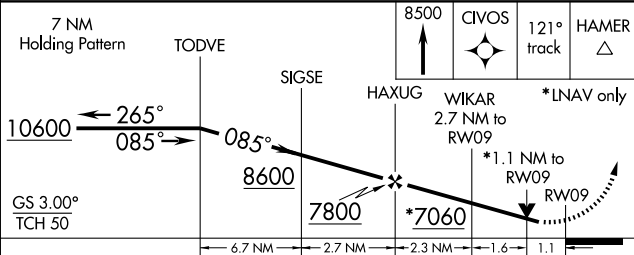
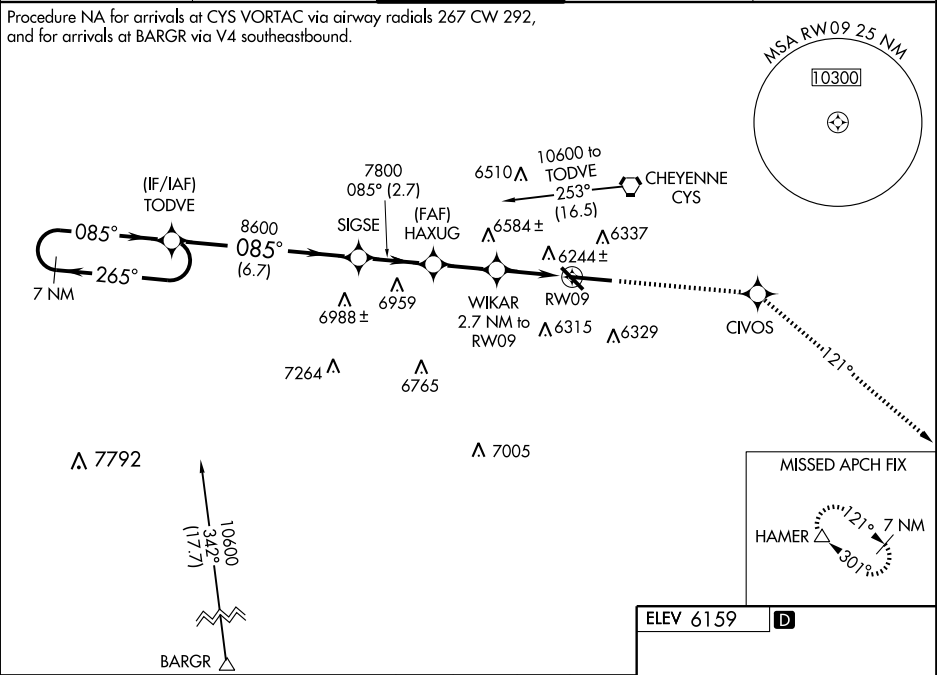
WAAS CH 73009 W09A	APP CRS 085°	Rwy Idg TDZE Apt Elev	7985 6143 6159
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RNAV (GPS) RWY 9
CHEYENNE RGNL/JERRY OLSON FIELD (CYS)

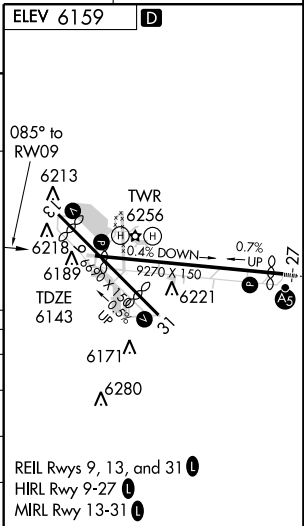
⚠ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -27°C (-16°F) or above 36°C (96°F).
ASR/PAW DME/DME RNP -0.3 NA. Visibility reduction by helicopters NA.
When local altimeter setting not received, use Laramie altimeter setting and increase all DA 251 feet, all MDA 260 feet, and all visibilities ¾ mile.
VDP and Baro-VNAV NA when using Laramie altimeter setting.

MISSED APPROACH: Climb to 8500 direct CIVOS and via 121° track to HAMER and hold.

ATIS 134.425 278.3	CHEYENNE APP CON 124.55 263.075	CHEYENNE TOWER * 118.7 (CTAF) 0 257.8	GND CON 121.9 254.275	UNICOM 122.95
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CATEGORY	A	B	C	D
LPV DA		6473-1¼ 330 (400-1¼)		
LNAV/VNAV DA		6542-1½ 399 (400-1½)		
LNAV MDA		6540-1 397 (400-1)		6540-1¼ 397 (400-1¼)
CIRCLING	6660-1 501 (600-1)		6660-1½ 501 (600-1½)	6720-2 561 (600-2)



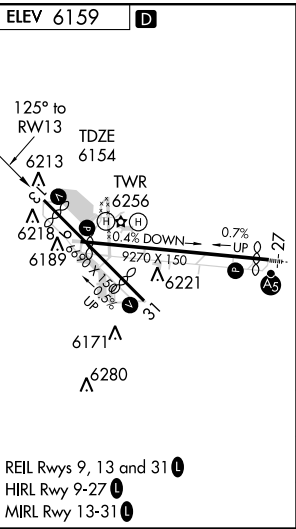
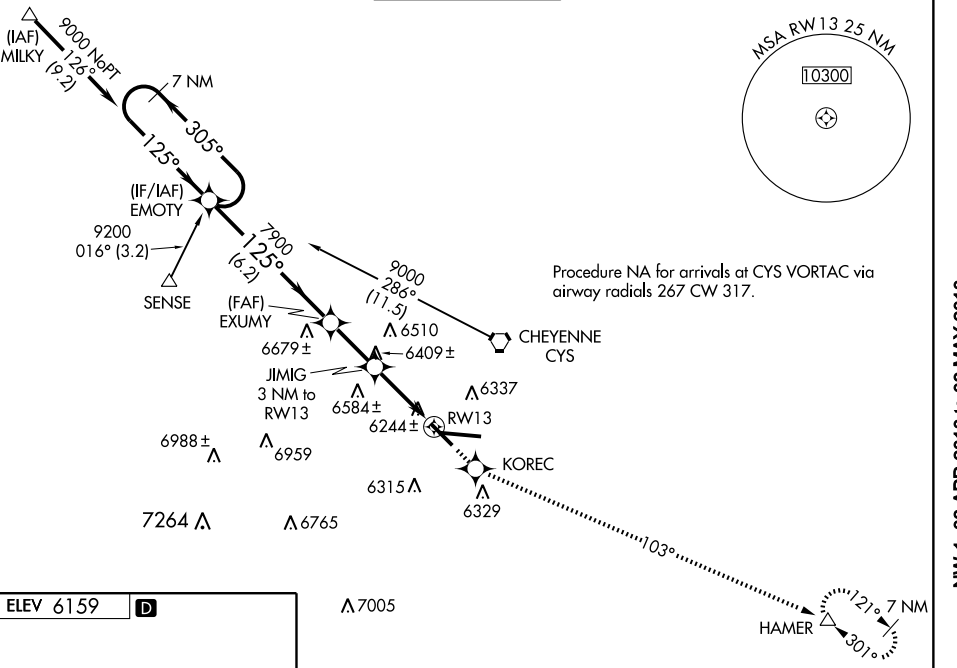
▼

▲

Baro-VNAV NA when using Laramie altimeter setting.
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -27°C (-16°F) or above 36°C (96°F).
DME/DME RNP -0.3 NA. Visibility reduction by helicopters NA.
When local altimeter setting not received, use Laramie altimeter setting and increase all DA/MDA 260 feet and all visibilities 1 mile.

MISSED APPROACH: Climb to 8500 direct KOREC and via 103° track to HAMER and hold.

ATIS 134.425 278.3	CHEYENNE APP CON 124.55 263.075	CHEYENNE TOWER ★ 118.7 (CTAF) 257.8	GND CON 121.9 254.275	UNICOM 122.95
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VGSI and RNAV glidepath not coincident				8500 ↑	KOREC ✦	103° track	HAMER △
7 NM Holding Pattern							
EMOTY				*LNAV only			
9000 ← 305° 125° →				JIMIG 3 NM to RW13			
GS 3.00° TCH 55				RW13			
7900				*7160			
6.2 NM				2.2 NM 3 NM			
CATEGORY	A	B	C	D			
LPV DA	6481-1 327 (400-1)						
LNAV/ VNAV DA	6539-1¼ 385 (400-1¼)						
LNAV MDA	6660-1 506 (600-1)			6660-1½ 506 (600-1½)			
CIRCLING	6660-1 501 (600-1)			6660-1½ 501 (600-1½)		6720-2 561 (600-2)	

REIL Rwy 9, 13 and 31 **L**

HIRL Rwy 9-27 **L**

MIRL Rwy 13-31 **L**

WAAS CH 70307 W27A	APP CRS 265°	Rwy Idg TDZE Apt Elev	7985 6121 6160
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RNAV (GPS) RWY 27

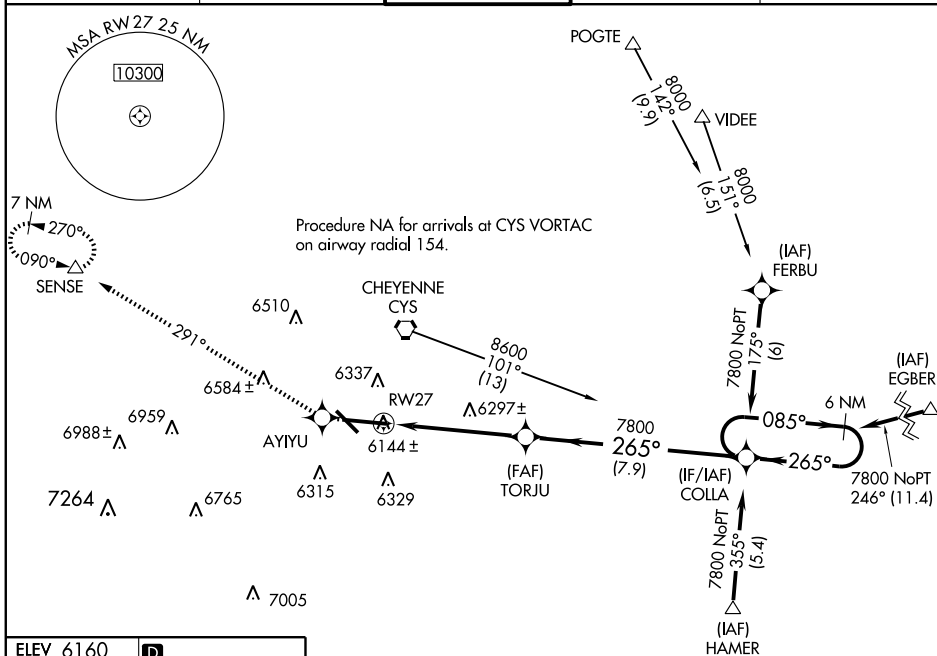
CHEYENNE RGNL/JERRY OLSON FIELD (CYS)

T Baro-VNAV NA below -27°C (-16°F).
ASR/PAR DME/DME RNP-0.3 NA.

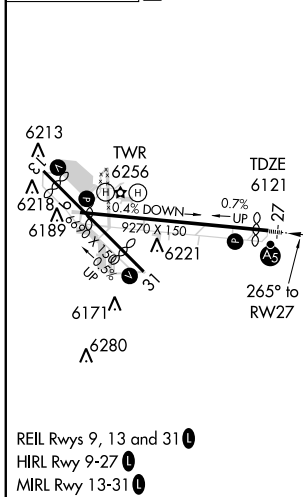



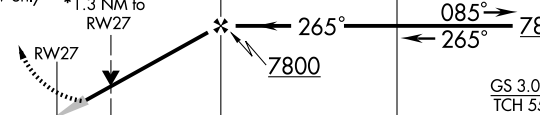
MISSED APPROACH: Climb to 10300 direct AYIU and via 291° track to SENSE and hold, continue climb-in-hold to 10300.

ATIS 134.425 278.3	CHEYENNE APP CON 124.55 263.075	CHEYENNE TOWER * 118.7 (CTAF) 0 257.8	GND CON 121.9 254.275	UNICOM 122.95
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ELEV 6160	D
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10300 ↑	AYIU 	291° track	SENSE △				
*LNAV only				*1.3 NM to RW27			
CATEGORY				A	B	C	D
LPV DA		6380/24 259 (300-½)					
LNAV/ VNAV DA		6480/40 359 (400-¾)					
LNAV MDA		6560/24 439 (400-½)	6560/40 439 (400-¾)		6560/50 439 (400-1)		
CIRCLING		6660-1 500 (500-1)	6660-1½ 500 (500-1½)		6720-2 560 (600-2)		

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ASR/PAR

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -27°C (-16°F) or above 36°C (96°F).

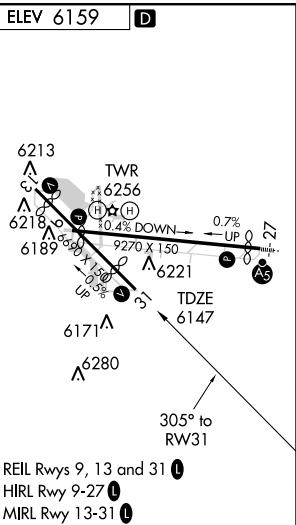
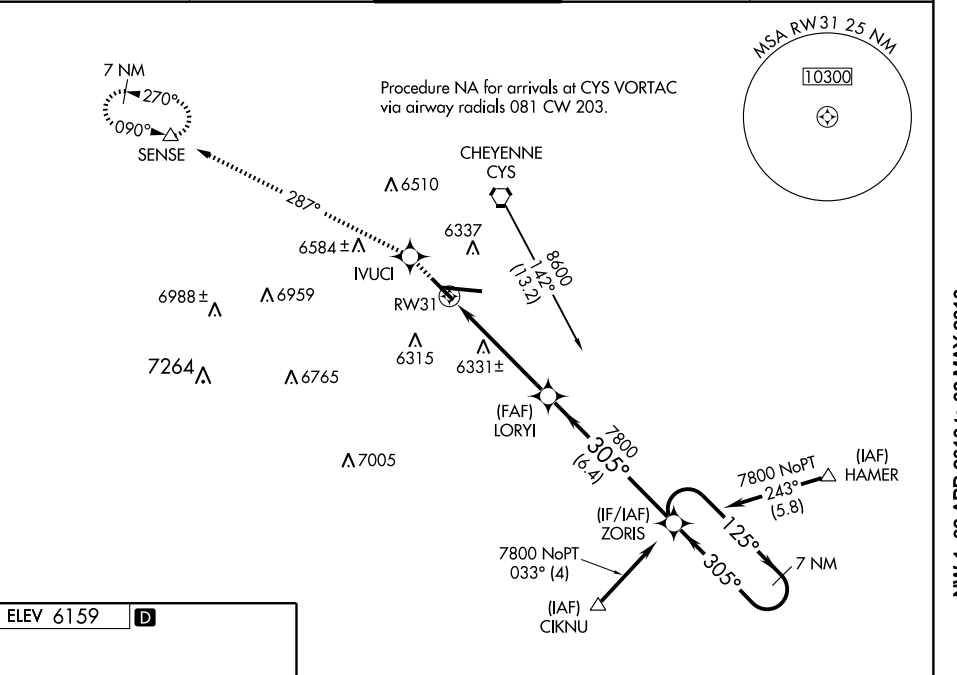
DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA.

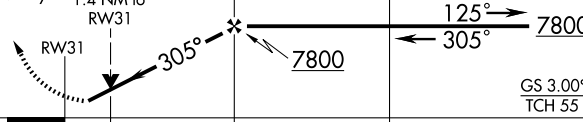
VDP and Baro-VNAV NA when using Laramie altimeter setting.

When local altimeter setting not received, use Laramie altimeter setting and increase all DA/MDA 260 feet and all visibilities ¾ mile.

MISSED APPROACH: Climb to 10300 direct IVUCI and via 287° track to SENSE and hold, continue climb-in-hold to 10300.

ATIS 134.425 278.3	Cheyenne APP CON 124.55 263.075	Cheyenne Tower ★ 118.7(CTAF) 0 257.8	GND CON 121.9 254.275	UNICOM 122.95
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10300 ↑	IVUCI ✦	287° track	SENSE △	VGSI and RNAV glidepath not coincident.			
				LORYI	ZORIS	7 NM Holding Pattern	
*LNAV only				*1.4 NM to RW31			
				GS 3.00° TCH 55			
CATEGORY		A		B	C	D	
LPV	DA	6397-1 250 (300-1)					
LNAV/ VNAV	DA	6545-1½ 398 (400-1½)					
LNAV	MDA	6600-1	453 (500-1)	6600-1¼ 453 (500-1¼)		6600-1½ 453 (500-1½)	
CIRCLING		6660-1	501 (600-1)	6660-1½ 501 (600-1½)		6720-2 561 (600-2)	

VORTAC CYS 113.1 Chan 78	APP CRS 196°	Rwy Idg TDZE Apt Elev	N/A N/A 6156
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VOR or TACAN-A

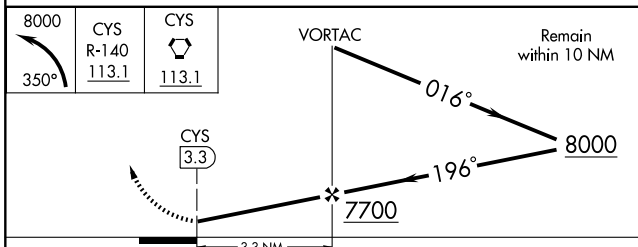
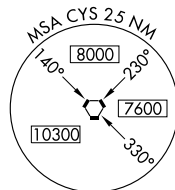
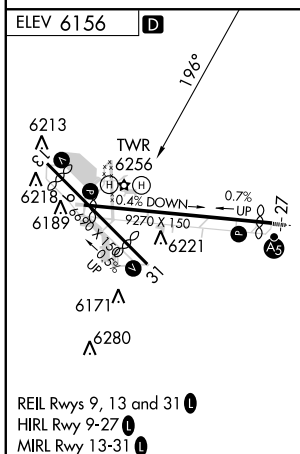
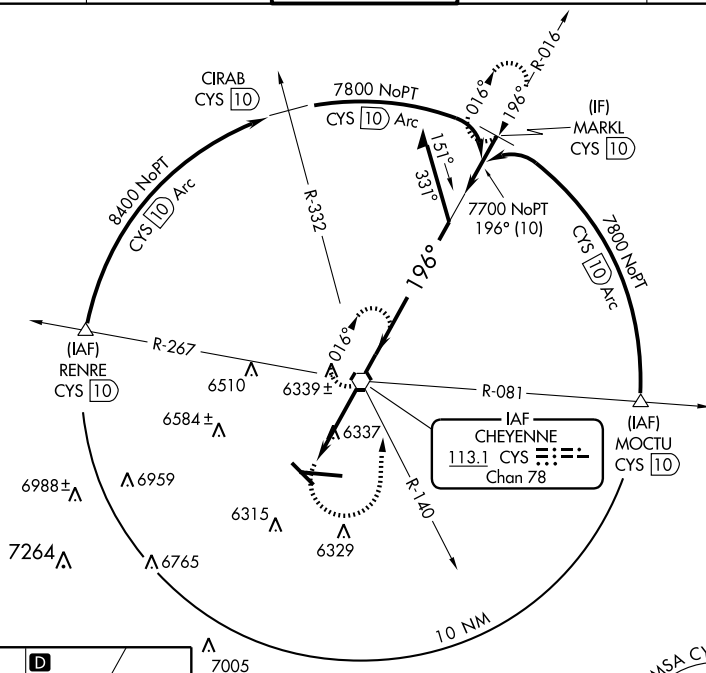
CHEYENNE RGNL/JERRY OLSON FIELD (CYS)



ASR/PAR

MISSED APPROACH: Climbing left turn to 8000 via heading 350° and CYS VORTAC R-140 to CYS VORTAC and hold, continue climb-in-hold to 8000 (TACAN aircraft continue via CYS R-016 to MARKL/10 DME and hold N, RT, 196° inbound.)

ATIS 134.425 278.3	CHEYENNE APP CON 124.55 263.075	CHEYENNE TOWER ★ 118.7 (CTAF) 0 257.8	GND CON 121.9 254.275	UNICOM 122.95
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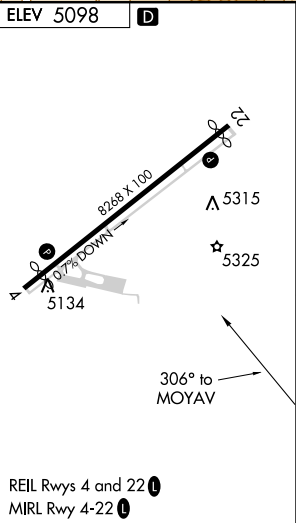
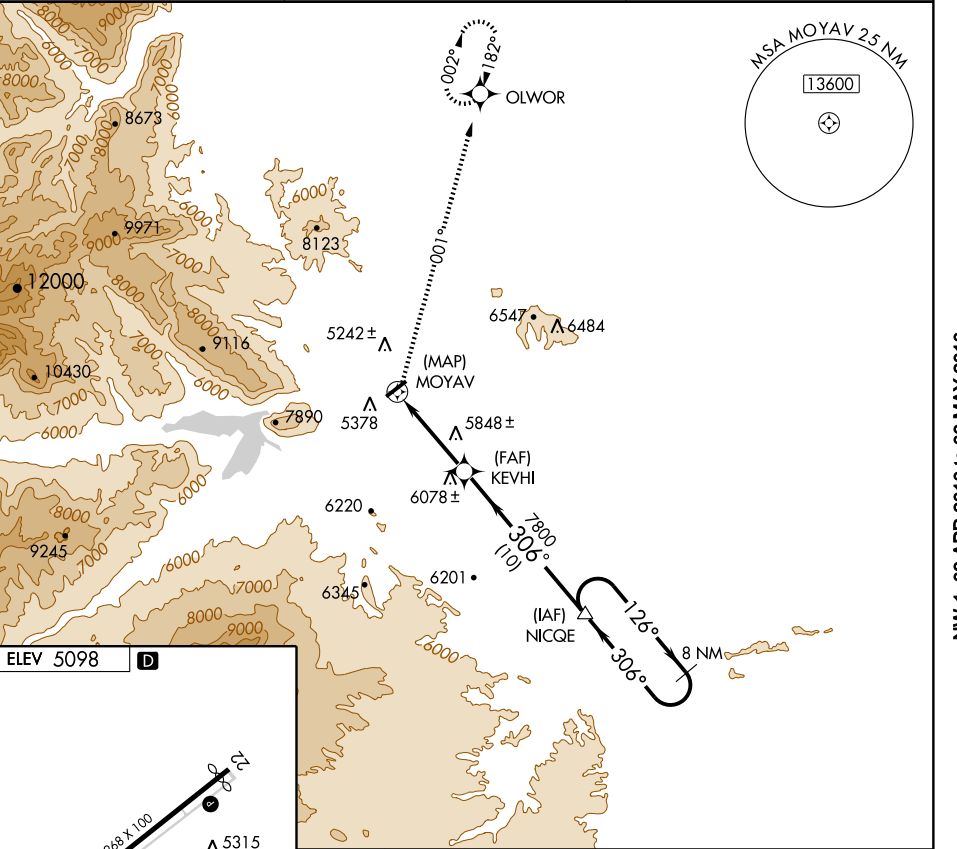
FAF to MAP 3.3 NM						CATEGORY	A		B		C		D			
Knots	60	90	120	150	180		6660-1		504 (600-1)		6660-1½		504 (600-1½)		6720-2	
Min:Sec	3:18	2:12	1:39	1:19	1:06	CIRCLING	6660-1		504 (600-1)		6660-1½		504 (600-1½)		6720-2	
															564 (600-2)	




▼

▲ NA

MISSED APPROACH: Climbing right turn to 6800 via 001° course to OLWOR WP and hold.

AWOS-3 135.075	SALT LAKE CENTER 133.25 285.6	UNICOM 122.8 (CTAF) 0
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<div>6800</div> <div>OLWOR</div> <div></div> <div></div>		<div>NICQE</div> <div>8 NM Holding Pattern</div>		
<div>MOYAV</div> <div>KEVHI</div> <div>7800</div>		<div>126° →</div> <div>← 306°</div> <div>9600</div>		
<div></div> <div>5.6 NM</div> <div>10 NM</div>				
CATEGORY	A	B	C	D
CIRCLING	6100-1¼ 1002 (1100-1¼)	6100-1½ 1002 (1100-1½)	6100-3	1002 (1100-3)

WAAS
CH 93600
W22A

APP CRS
218°

Rwy Idg	7178
TDZE	5076
Apt Elev	5102

RNAV (GPS) RWY 22
CODY/ YELLOWSTONE RGNL (COD)

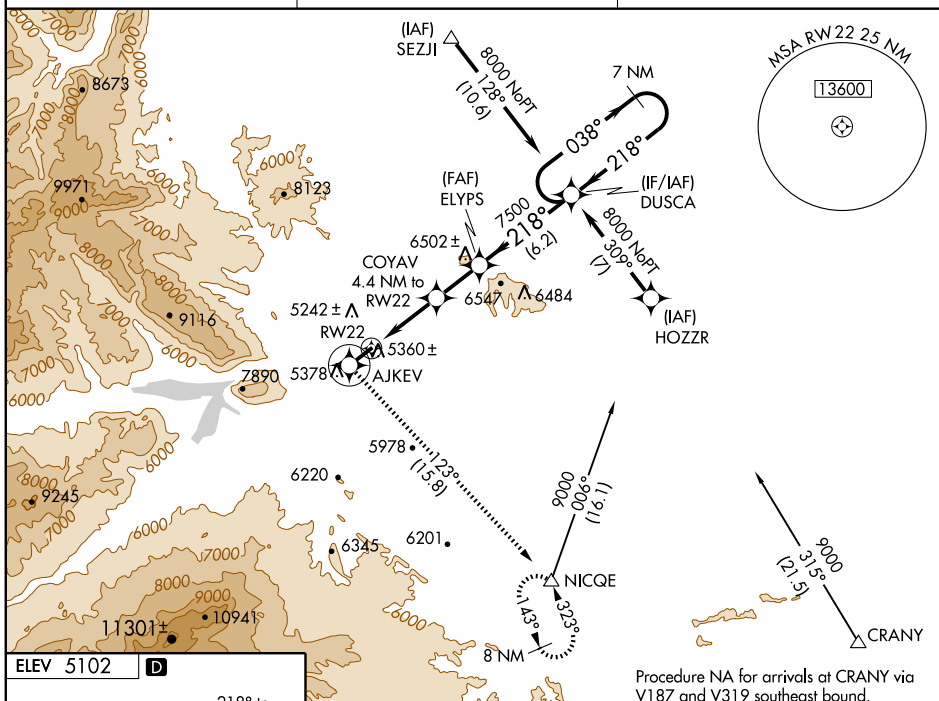
DME/DME RNP- 0.3 NA.

MISSED APPROACH: Climb to 9600 direct AJKEV and left turn via 123° track to NICQE and hold.

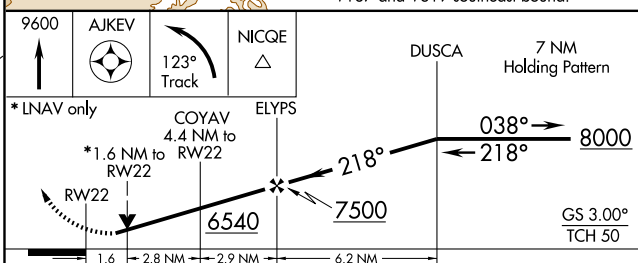
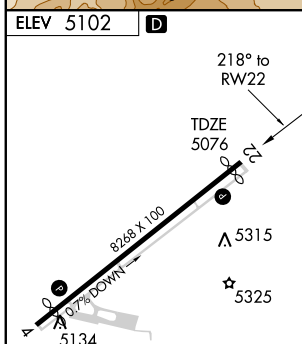
AWOS-3
135.075

SALT LAKE CENTER
133.25 285.6

UNICOM
122.8 (CTAF) **L**



NW-1. 08 APR 2010 to 06 MAY 2010



CATEGORY	A	B	C	D
LPV DA	5457-1¼ 381 (400-1¼)			
LNAV/ VNAV DA	NA			
LNAV MDA	5620-1 544 (600-1)	5620-1½ 544 (600-1½)	5620-1¾ 544 (600-1¾)	
CIRCLING	5840-1¼ 738 (800-1¼)	5900-2¼ 798 (800-2¼)	5960-2¾ 858 (900-2¾)	

REIL Rwy 4 and 22 **L**MIRL Rwy 4-22 **L**

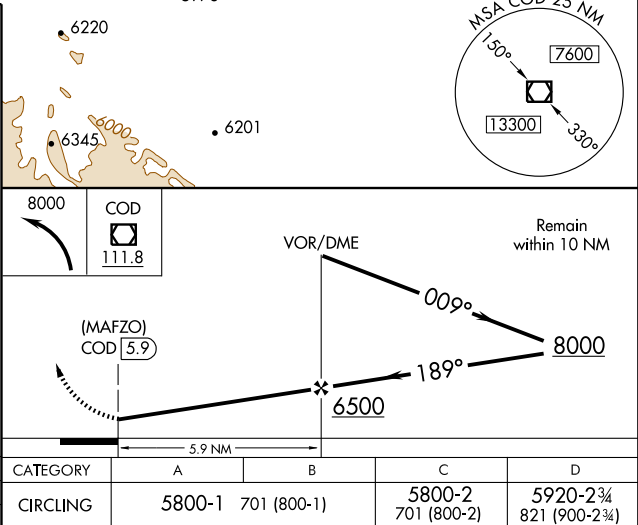
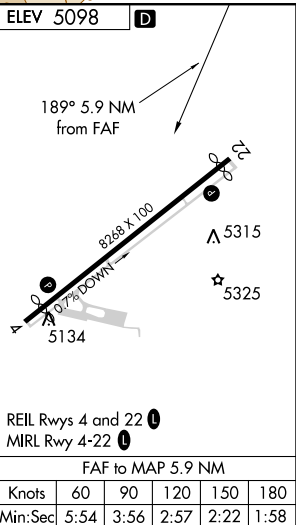
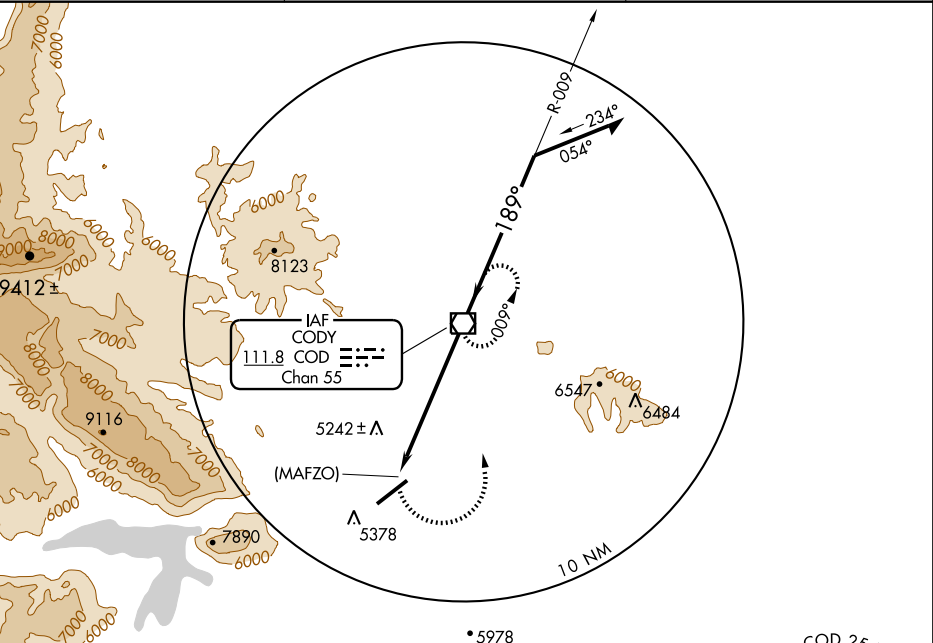
VOR/DME COD 111.8 Chan 55	APP CRS 189°	Rwy Idg TDZE Apt Elev 5098	N/A N/A 5098
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MISSED APPROACH: Climbing left turn to 8000 direct COD VOR/DME and hold.

AWOS-3 135.075	SALT LAKE CENTER 133.25 285.6	UNICOM 122.8 (CTAF) 0
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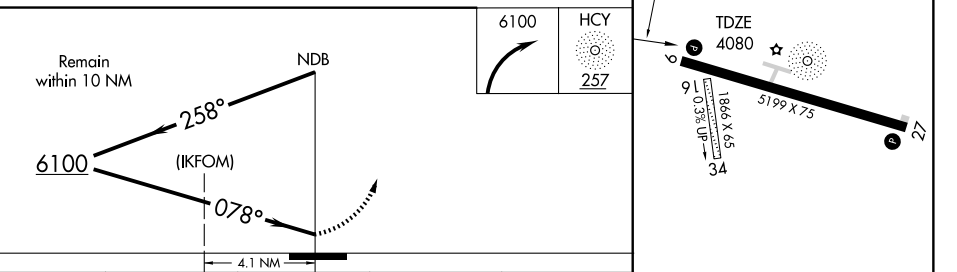
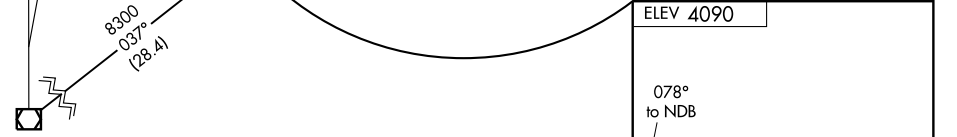
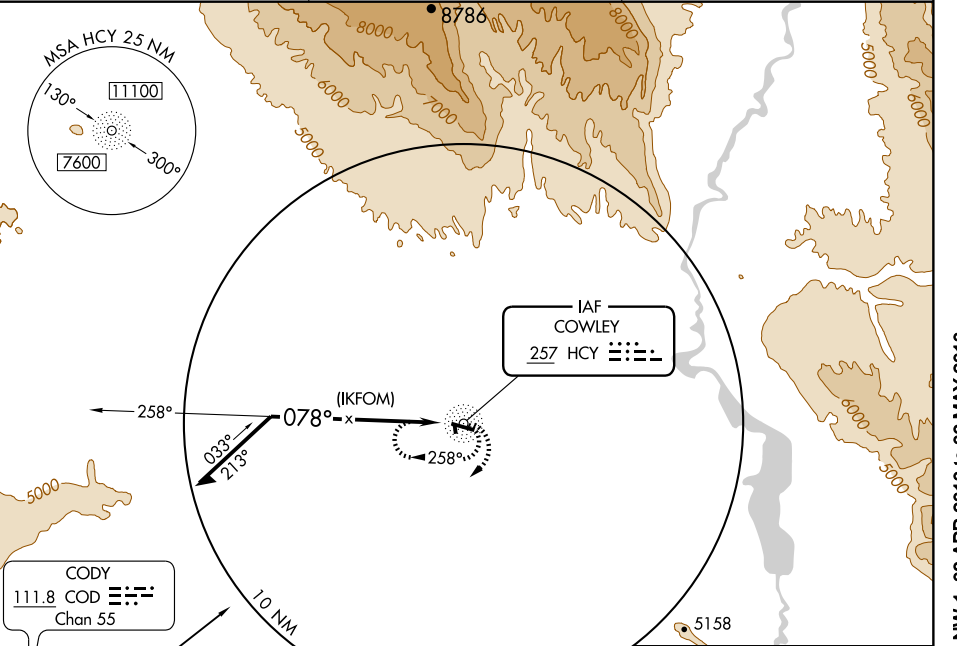
NW-1. 08 APR 2010 to 06 MAY 2010

NA

Obtain local altimeter setting on CTAF;
when not received, procedure NA.

MISSED APPROACH: Climbing right turn to 6100
in HCY NDB holding pattern.

AWOS-3 119.925	SALT LAKE CENTER 133.25 285.6	UNICOM 122.8 (CTAF) 0
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CATEGORY	A	B	C	D
S-9	4860-1 780 (800-1)	4860-1¼ 780 (800-1¼)	4860-2¼ 780 (800-2¼)	4860-2½ 780 (800-2½)
CIRCLING	4860-1 770 (800-1)	4860-1¼ 770 (800-1¼)	4860-2¼ 770 (800-2¼)	4860-2½ 770 (800-2½)

REIL Rwy 9 and 27 0
MRL Rwy 9-27 0

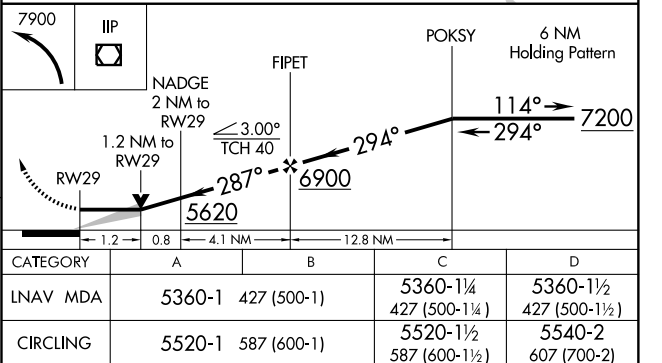
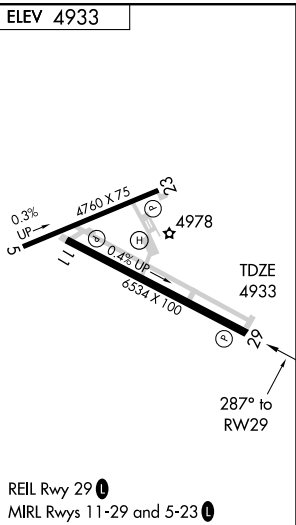
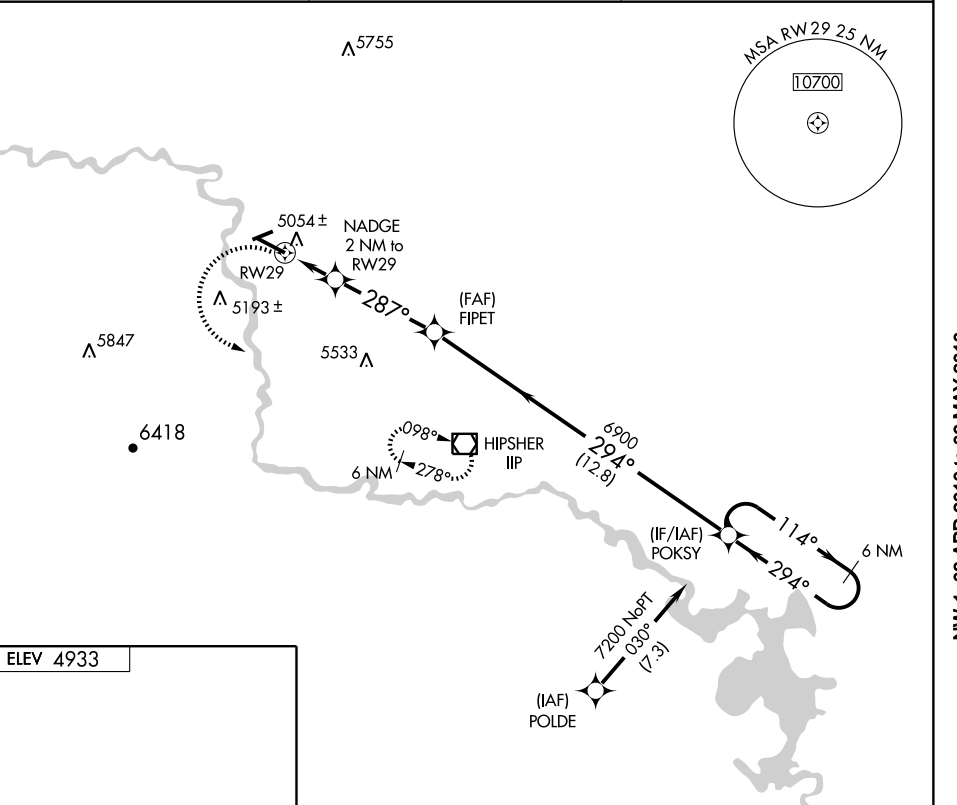
NW-1. 08 APR 2010 to 06 MAY 2010

▽

DME/DME RNP- 0.3 NA.

MISSED APPROACH: Climbing left turn to 7900 direct IIP VOR/DME and hold, continue-in-hold to 7900.

ASOS 135.225	DENVER CENTER 135.6 363.025	UNICOM 122.8 (CTAF) 0
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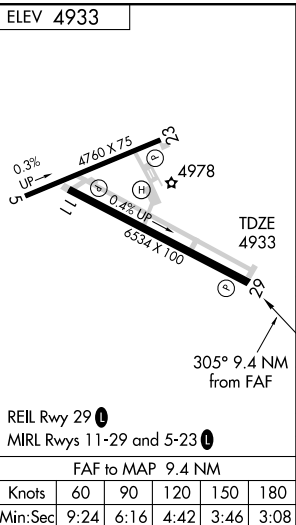
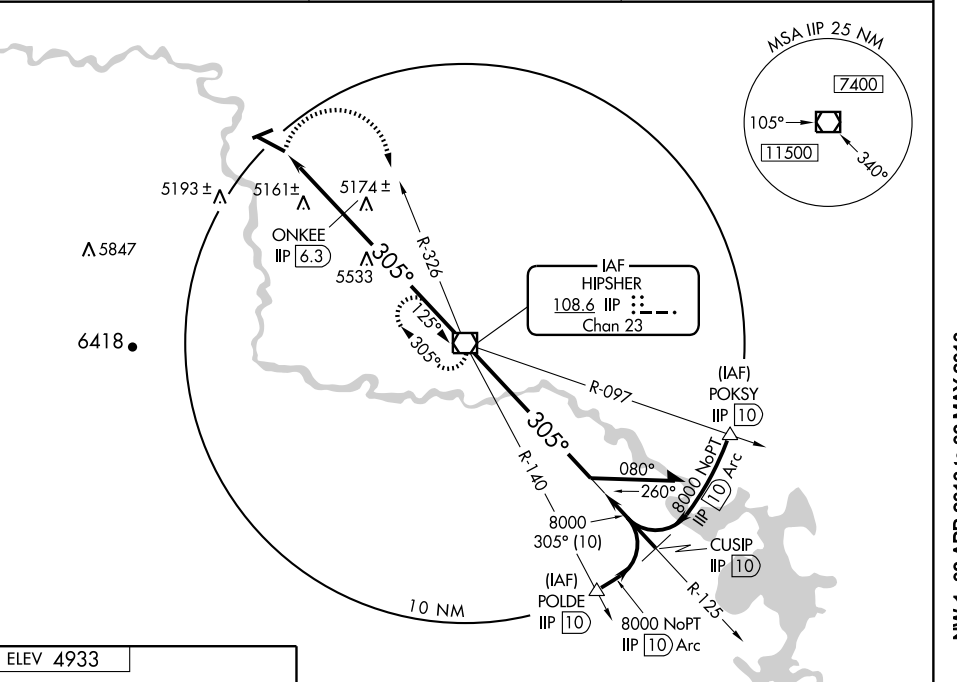
NW-1. 08 APR 2010 to 06 MAY 2010



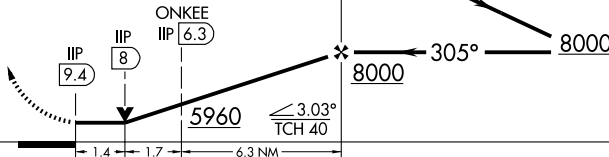
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MISSED APPROACH: Climbing right turn to 8000 via heading 160° and IIP VOR/DME R-326 to IIP VOR/DME and hold, continue climb-in-hold to 8000.

ASOS 135.225	DENVER CENTER 135.6 363.025	UNICOM 122.8 (CTAF) 0
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8000 	IIP R-326 <u>108.6</u>	IIP  <u>108.6</u>	VOR/DME Remain within 10 NM			
						
CATEGORY	A		B		C	D
S-29	5960-1¼ 1027 (1100-1¼)		5960-1½ 1027 (1100-1½)		5960-3	1027 (1100-3)
CIRCLING	5960-1¼ 1027 (1100-1¼)		5960-1½ 1027 (1100-1½)		5960-3	1027 (1100-3)
ONKEE FIX MINIMUMS						
S-29	5420-1 487 (500-1)		5420-1¼ 487 (500-1¼)		5420-1½ 487 (500-1½)	
CIRCLING	5520-1 587 (600-1)		5520-1½ 587 (600-1½)		5540-2 607 (700-2)	

LOC/DME I-EVW <u>108.9</u> Chan 26	APP CRS 234°	Rwy Idg 7300 TDZE 7143 Apt Elev 7143
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ILS or LOC/DME RWY 23

EVANSTON-UINTA COUNTY BURNS FIELD (EVW)

T For inoperative MALSR, increase S-LOC 23
A Cat D visibility to 1 mile. When local altimeter
setting not received, procedure NA.

MALSR

MISSED APPROACH: Climb to 7600 then climbing left turn to 12000 via EVW VOR/DME R-213 to COOLI/EVW VOR/DME 16.6 DME and hold, continue climb-in-hold to 12000.

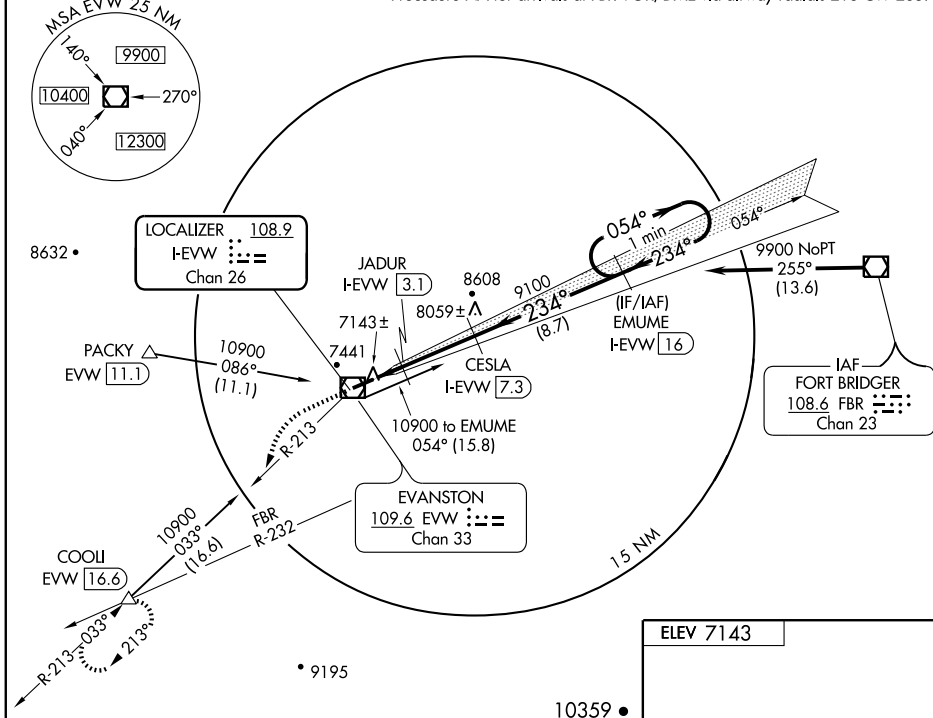
ASOS
120.0

SALT LAKE CENTER
127.7 354.125

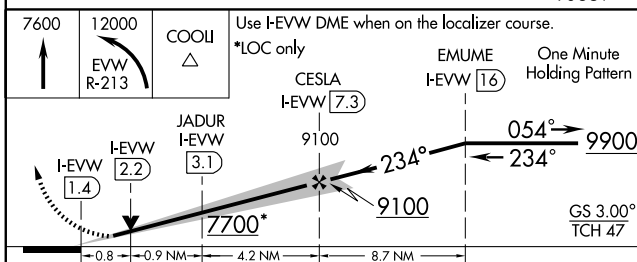
GCO
121.72

UNICOM
123.0 (CTAF) **L**

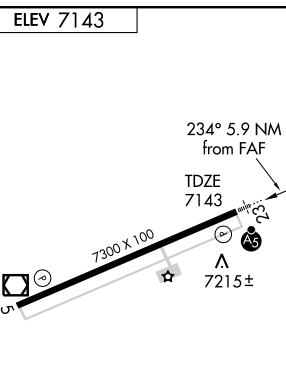
Procedure NA for arrivals at FBR VOR/DME via airway radials 213 CW 285.



NW-1. 08 APR 2010 to 06 MAY 2010



CATEGORY	A	B	C	D
S-ILS 23	7343- $\frac{1}{2}$ 200 (200- $\frac{1}{2}$)			
S-LOC 23	7440- $\frac{1}{2}$ 297 (300- $\frac{1}{2}$)			7440- $\frac{3}{4}$ 297 (300- $\frac{3}{4}$)
CIRCLING	7580-1 437 (500-1)	7720-1 577 (600-1)	7760-1 $\frac{3}{4}$ 617 (700-1 $\frac{3}{4}$)	7760-2 617 (700-2)

REIL Rwy 5 and 23 **L**HIRL Rwy 5-23 **L**

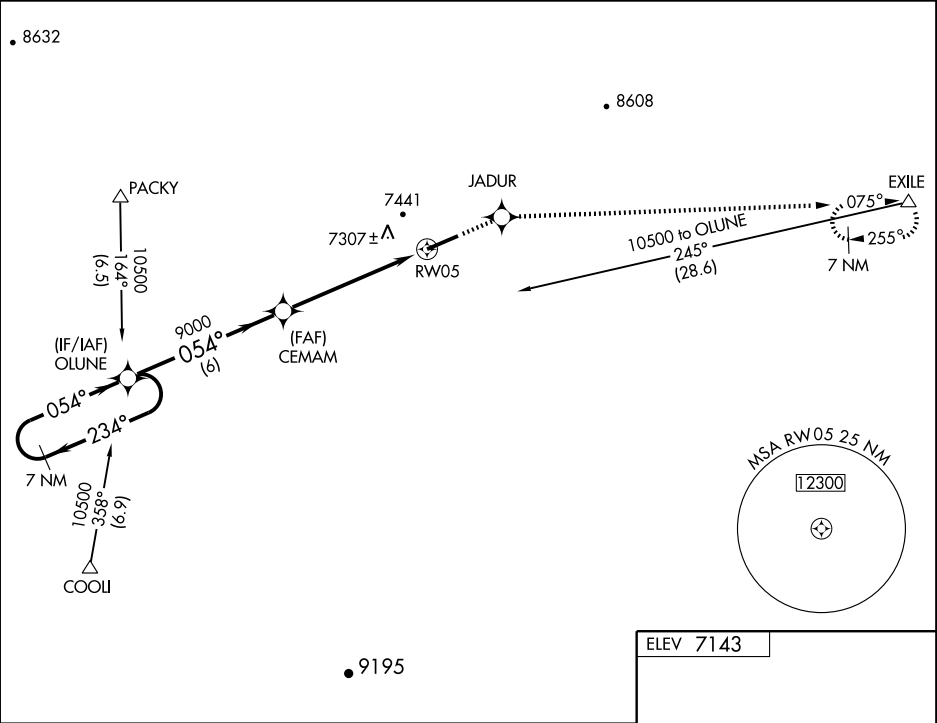
WAAS CH 78302 W05A	APP CRS 054°	Rwy Idg TDZE Apt Elev	7300 7141 7143
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RNAV (GPS) RWY 5

EVANSTON-UINTA COUNTY BURNS FIELD (E V W)

<p>▼ If local altimeter setting not received, procedure NA. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -29°C (-20°F) or above 34°C (94°F). DME/DME RNP- 0.3 NA.</p>	<p>MISSED APPROACH: Climb to 12000 direct JADUR and via 075° track to EXILE and hold, continue climb-in-hold to 12000.</p>
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ASOS 120.0	SALT LAKE CENTER 127.7 354.125	GCO 121.72	UNICOM 123.0 (CTAF) 0
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7 NM Holding Pattern

OLUNE

CEMAM

12000

JADUR

075° track

EXILE

10500

←234°

054°→

GS 3.00°

TCH 55

9000

054°

*0.8 NM to RW05

*LNAV only

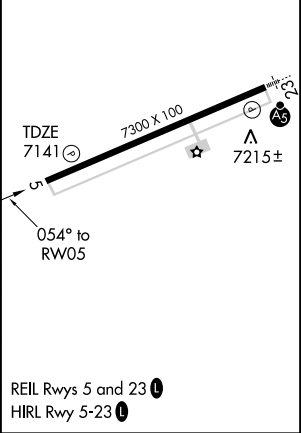
RW05

6 NM

4.8 NM

0.8

CATEGORY	A	B	C	D
LPV DA	7391-3/4		250 (300-3/4)	
LNAV/ VNAV DA	7643-13/4		502 (500-13/4)	
LNAV MDA	7440-1		299 (300-1)	
CIRCLING	7580-13/4 437 (500-13/4)	7720-13/4 577 (600-13/4)	7760-13/4 617 (700-13/4)	7760-2 617 (700-2)



WAAS CH 77905 W23A	APP CRS 234°	Rwy Idg 7300 TDZE 7143 Apt Elev 7143
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RNAV (GPS) RWY 23

EVANSTON-UINTA COUNTY BURNS FIELD (EVW)



For inoperative MALSR, increase LPV all Cats. visibility to 1, LNAV/VNAV Cat. D to 1 and LNAV Cat. D to 1½.
When local altimeter setting not received, procedure NA.
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -29°C (-20°F) or above 34°C (93°F). DME/DME RNP: 0.3 NA.

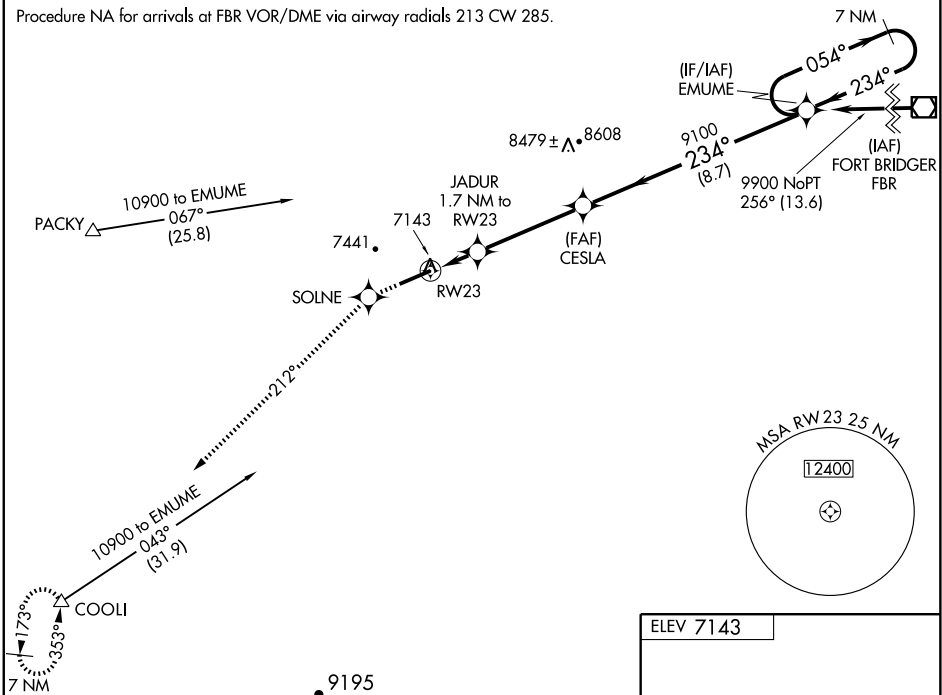
MALSR



MISSED APPROACH: Climb to 12000 direct SOLNE and via 212° track to COOL and hold, continue climb-in-hold to 12000.

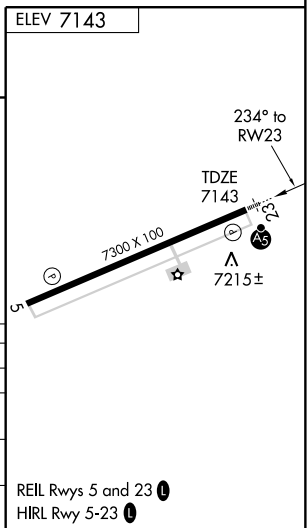
ASOS 120.0	SALT LAKE CENTER 127.7 354.125	GCO 121.72	UNICOM 123.0 (CTAF) 0
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Procedure NA for arrivals at FBR VOR/DME via airway radials 213 CW 285.



NW-1. 08 APR 2010 to 06 MAY 2010

12000 ↑	SOLNE ✱	212° track	COOLI △						
*LNAV only				JADUR 1.7 NM to RW23 *1.1 NM to RW23 7700* 9100 9900 GS 3.00° TCH 47					
CATEGORY		A		B		C		D	
LPV	DA	7393-1/2				250 (300-1/2)			
LNAV/ VNAV	DA	7443-1/2				300 (300-1/2)			
LNAV	MDA	7520-1/2				377 (400-1/2)			
CIRCLING		7580-1 437 (500-1)		7720-1 577 (600-1)		7760-13/4 617 (700-13/4)		7760-2 617 (700-2)	



ELEV 7143

TDZE 7141

7300 X 100

044° 5 NM from FAF

REIL Rwys 5 and 23 **L**

HIRL Rwy 5-23 **L**

VOR/DME EVW	APP CRS	Rwy Idg	7300
109.6	237°	TDZE	7143
Chan 33		Apt Elev	7143

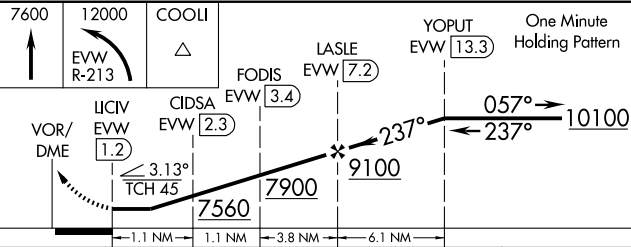
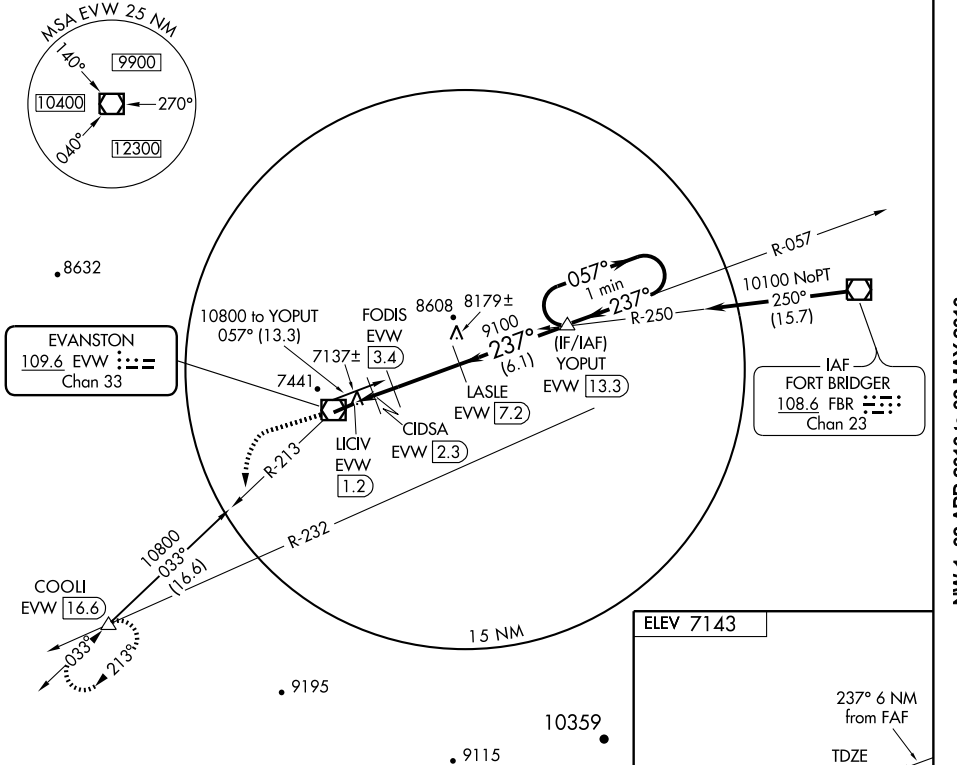
For inoperative MALS, increase S-23 Cat. D visibility to 1 1/4 mile.
If local altimeter setting not received, procedure NA.

MALS

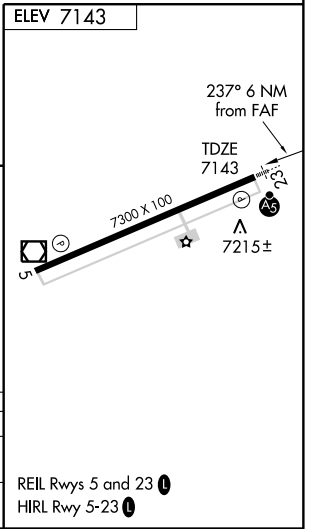
MISSED APPROACH: Climb to 7600 then climbing left turn to 12000 via EVW VOR/DME R-213 to COOLI/16.6 DME and hold, continue climb-in-hold to 12000.

ASOS 120.0	SALT LAKE CENTER 127.7 354.125	GCO 121.72	UNICOM 123.0 (CTAF)
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Procedure NA for arrivals at FBR VOR/DME via airway radials 213 CW 285.



CATEGORY	A	B	C	D
S-23	7500-1/2 357 (400-1/2)			7500-1 357 (400-1)
CIRCLING	7580-1 437 (500-1)	7720-1 577 (600-1)	7760-1 3/4 617 (700-1 3/4)	7760-2 617 (700-2)



NW-1. 08 APR 2010 to 06 MAY 2010

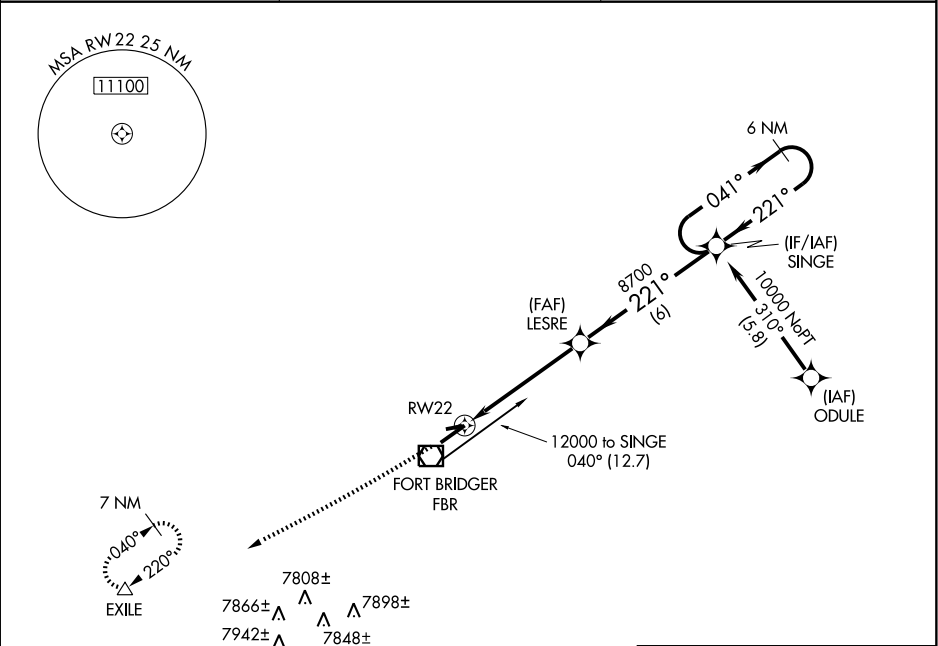
APP CRS	Rwy Idg	6402
221°	TDZE	7018
	Apt Elev	7034

RNAV (GPS) RWY 22

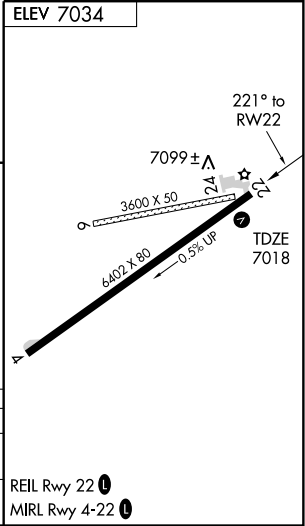
FORT BRIDGER (FBR)

NA	GPS or RNP 0.3 required. DME/DME RNP 0.3 NA	MISSED APPROACH: Climbing right turn to 12000 direct EXILE WP and hold.
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AWOS-2 118.8	CASPER RADIO 122.3	UNICOM 122.8 (CTAF)
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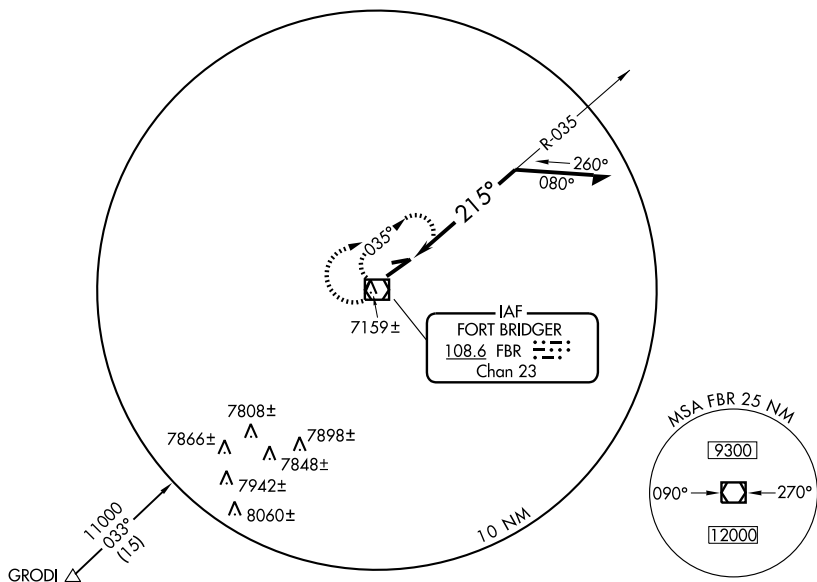


	EXILE 	SINGE 6 NM Holding Pattern			
		LESRE	041° → 10000 ← 221°		
		8700	VGSi and descent angles not coincident.		
CATEGORY	A	B	C	D	
LNAV MDA	7360-1		342 (400-1)	7360-1 ¼ 342 (400-1 ¼)	
CIRCLING	7480-1 446 (500-1)	7500-1 466 (500-1)	7500-1 ½ 466 (500-1 ½)	7600-2 566 (600-2)	



NW-1. 08 APR 2010 to 06 MAY 2010

AWOS-2 118.8	CASPER RADIO 122.3	UNICOM 122.8 (CTAF) 0
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NW-1. 08 APR 2010 to 06 MAY 2010

Diagram illustrating the intersection of REIL Rwy 22 and MIRL Rwy 4-22. The diagram shows a 215° bearing to the VOR/DME station, a 7099± distance, a 3600 X 50 obstacle, a 6402 X 80 obstacle, a 0.5% UP slope, and a TDZE of 7018.

LOC/DME I-LLT <u>110.1</u> Chan 38	APP CRS 338°	Rwy Idg 7500 TDZE 4365 Apt Elev 4365
--	------------------------	---

ILS or LOC RWY 34
GILLETTE-CAMPBELL COUNTY (GCC)

- T** For inoperative MALS R, increase S-LOC Cat A, and GLYE FIX MINIMUMS S-LOC Cat A/B visibilities to 1.
A Inoperative table does not apply to S-ILS 34.
 When VGSI inoperative, circling Rwy 3 NA at night.
 If local altimeter setting not received, procedure NA.
 ADF or DME required.

MALSR
A5

MISSED APPROACH: Climb to 5700 then climbing left turn to 7000 via heading 150° and GCC VOR/DME R-290 to GCC VOR/DME and hold, continue climb-in-hold to 7000.

ASOS 124.175	DENVER CENTER 135.6 363.025	GILLETTE TOWER* 118.5 (CTAF) 0	GND CON 121.7	UNICOM 122.95
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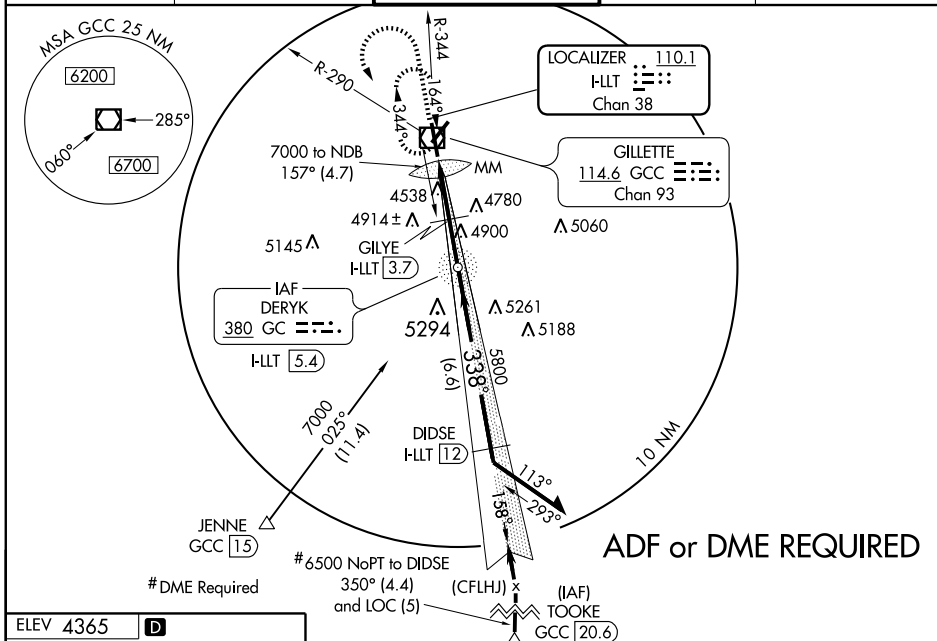


Diagram illustrating the GILYE FIX procedure:

- Initial Approach:** Descend to 5700 ft, turn 150°.
- LOC Course:** Use I-LLT DME when on LOC course. Distance to first fix is 1.4 MM.
- Fixes:**
 - I-LLT 1.4
 - I-LLT 3
 - I-LLT 3.7
- DME Fix:** 5200* NM.
- GILYE FIX MINIMUMS:**
 - S-LOC 34: 4565- $\frac{3}{4}$
 - CIRCLING: 5200-1 (835 (900-1)), 5200-1 $\frac{1}{4}$ (835 (900-1 $\frac{1}{4}$))
- Other Information:**
 - DERYK NDB I-LLT 5.4
 - VGS1 and ILS glidepath not coincident.
 - Remain within 10 NM
 - 338°, 158°, 6600, GS 3.00° TCH 47

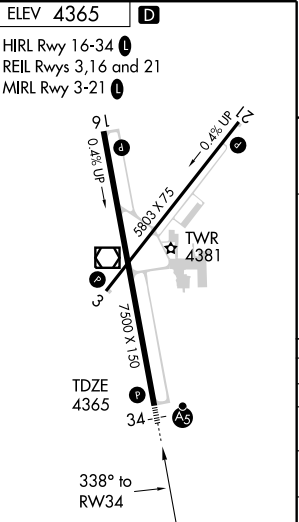
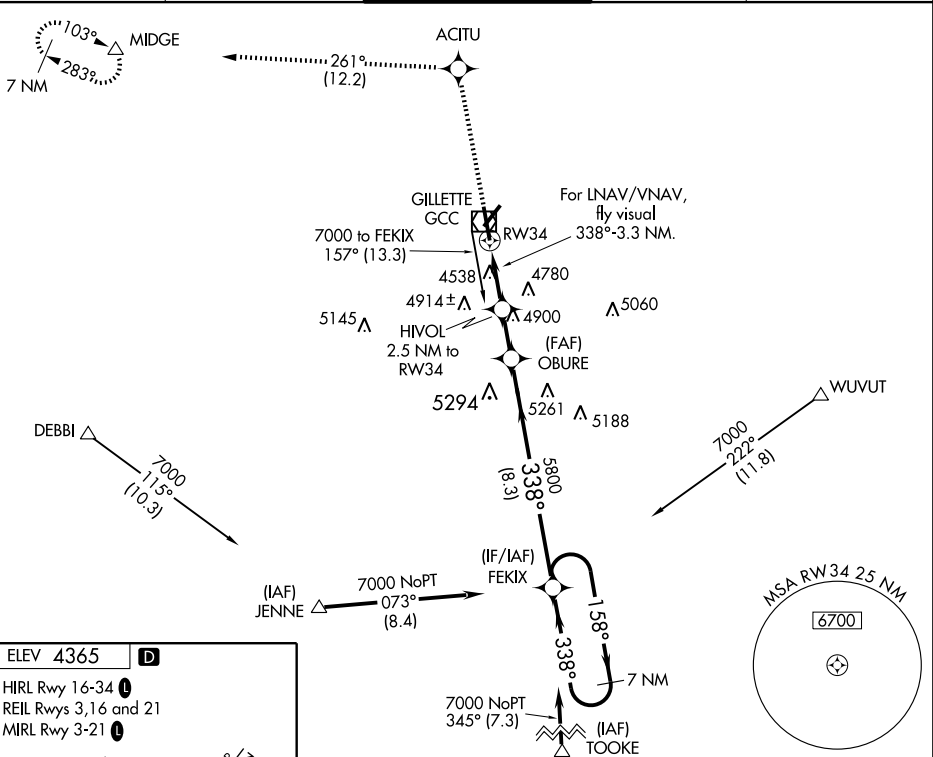
WAAS CH 86204 W34A	APP CRS 338°	Rwy Idg TDZE Apt Elev	7500 4365 4365
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⚠ Inoperative table does not apply to LPV and LNAV/VNAV. For inoperative MALSR, increase LNAV Cat A visibility to 1. When VGSI inoperative, Circling Rwy 3 NA at night. If local altimeter setting not received, procedure NA. DME/DME RNP- 0.3 NA. Baro-VNAV NA below -23°C (-9°F)

MALSR

MISSED APPROACH: Climb to 7000 direct ACITU and via 261° track to MIDGE and hold.

ASOS 124.175	DENVER CENTER 135.6 363.025	GILLETTE TOWER★ 118.5 (CTAF)	GND CON 121.7	UNICOM 122.95
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7000	ACITU	261° track	MIDGE	VGSI and RNAV glidepath not coincident	7 NM Holding Pattern
For LNAV/VNAV, fly visual 338°-3.3 NM	HIVOL 2.5 NM to RW34	OBURE	FEKIX		
5200	5800	5200	5800		
2.5 NM	1.8 NM	8.3 NM			
CATEGORY	A	B	C	D	
LPV	DA	4620- ³ / ₄	255 (300- ³ / ₄)		
LNAV/VNAV	DA	5480-2 1115 (1200-2)	5480-3 1115 (1200-3)		
LNAV	MDA	5120- ³ / ₄ 755 (800- ³ / ₄)	5120-1 ³ / ₄ 755 (800-1 ³ / ₄)	5120-2 755 (800-2)	
CIRCLING		5480-4 1115 (1200-4)			

NW-1. 08 APR 2010 to 06 MAY 2010

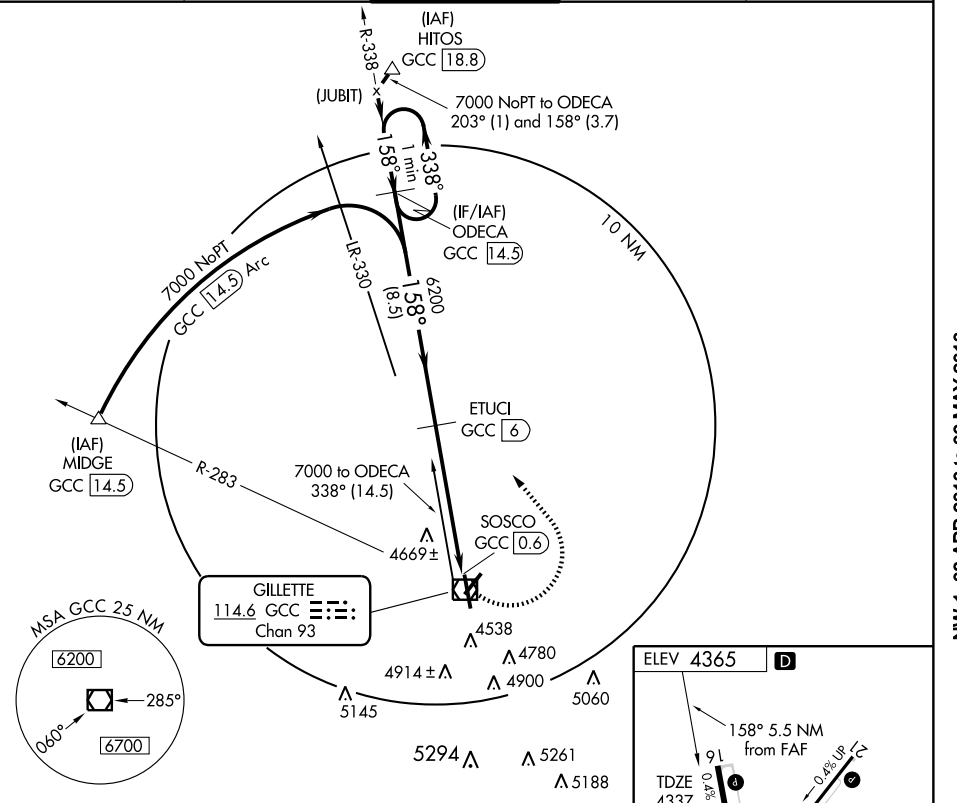
▼

▲

Visibility reduction by helicopters NA.
If local altimeter setting not received, procedure NA.
When VGSI inoperative, circling Rwy 3 NA at night.

MISSED APPROACH: Climbing left turn to 7000 via heading 308° and GCC R-338 to ODECA/14.5 DME and hold.

ASOS 124.175	DENVER CENTER 135.6 363.025	GILLETTE TOWER ★ 118.5 (CTAF) 0	GND CON 121.7	UNICOM 122.95
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One Minute Holding Pattern

ODECA GCC 14.5

7000 ← 338°
158° →

VGSI and descent angles not coincident

8.5 NM 3.9 NM 1.6 NM

ETUCI GCC 6

7000 GCC R-338 114.6

ODECA GCC 14.5

GCC 2.1

VOR/DME SOSCO GCC 0.6

3.12° TCH 61

CATEGORY	A	B	C	D
S-16	4920-1 583 (600-1)		4920-1½ 583 (600-1½)	4920-1¾ 583 (600-1¾)
CIRCLING	5040-1 675 (700-1)		5120-2¼ 755 (800-2¼)	5280-3 915 (1000-3)

ELEV 4365 D

158° 5.5 NM from FAF

TDZE 4337

5803 X 75

TWR 4381

7500 X 150

34

AS

HIRL Rwy 16-34 0

REIL Rws 3, 16 and 21

MIRL Rwy 3-21 0

NW-1. 08 APR 2010 to 06 MAY 2010

VOR/DME GCC 114.6 Chan 93	APP CRS 334°	Rwy Idg 7500 TDZE 4365 Apt Elev 4365
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VOR/DME RWY 34
GILLETTE-CAMPBELL COUNTY (GCC)

T For inoperative MALSR, increase S-34 Cat A visibility to 1.
A When VGSI inoperative, Circling Rwy 3 NA at night.
If local altimeter setting not received, procedure NA.

MALS

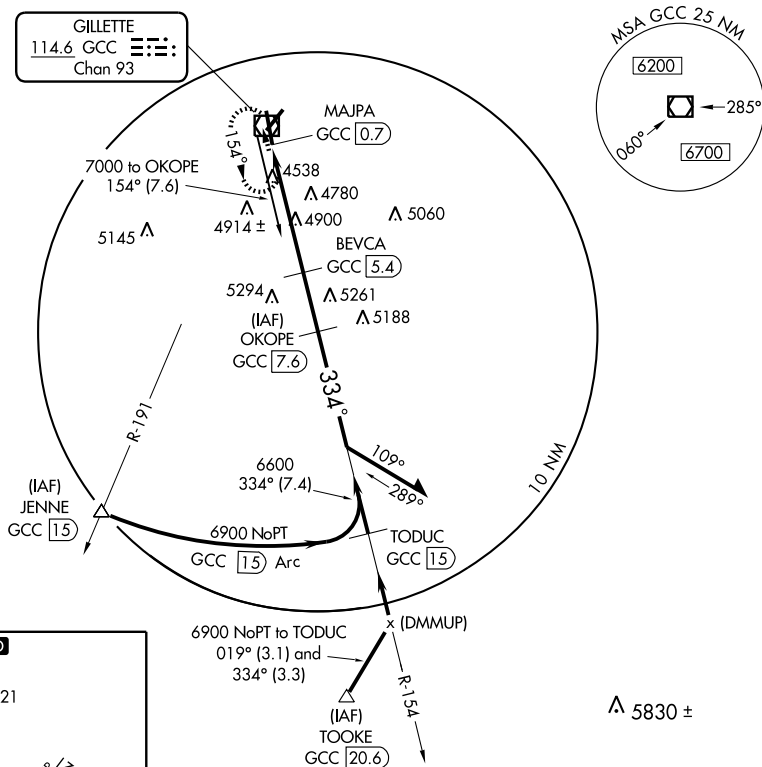
 

MISSED APPROACH: Climb to 7000 via GCC VOR/DME R-154 to GCC VOR/DME and hold, continue climb-in-hold to 7000.

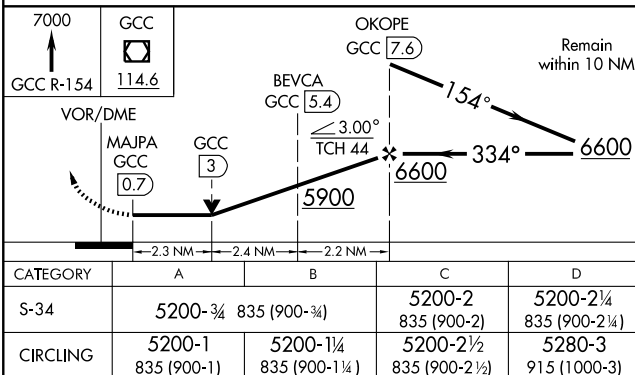
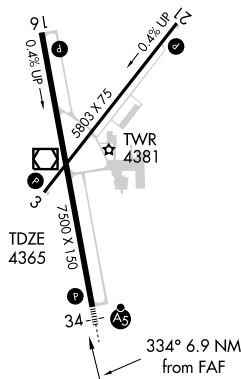
ASOS
124.175DENVER CENTER
135.6 363.025

GILLETTE TOWER ★
118.5 (CTAF) **L**

GND CON
121.7

UNICOM
122.95

ELEV 4365	D
HIRL Rwy 16-34	L
REIL Rwy 3, 16 and 21	
MIRL Rwy 3-21	L



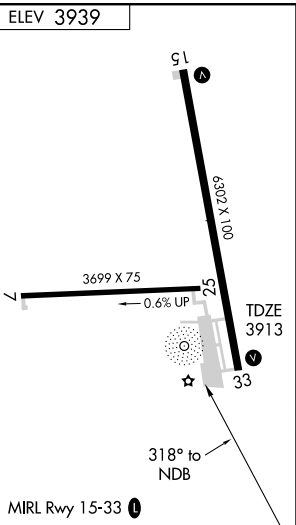
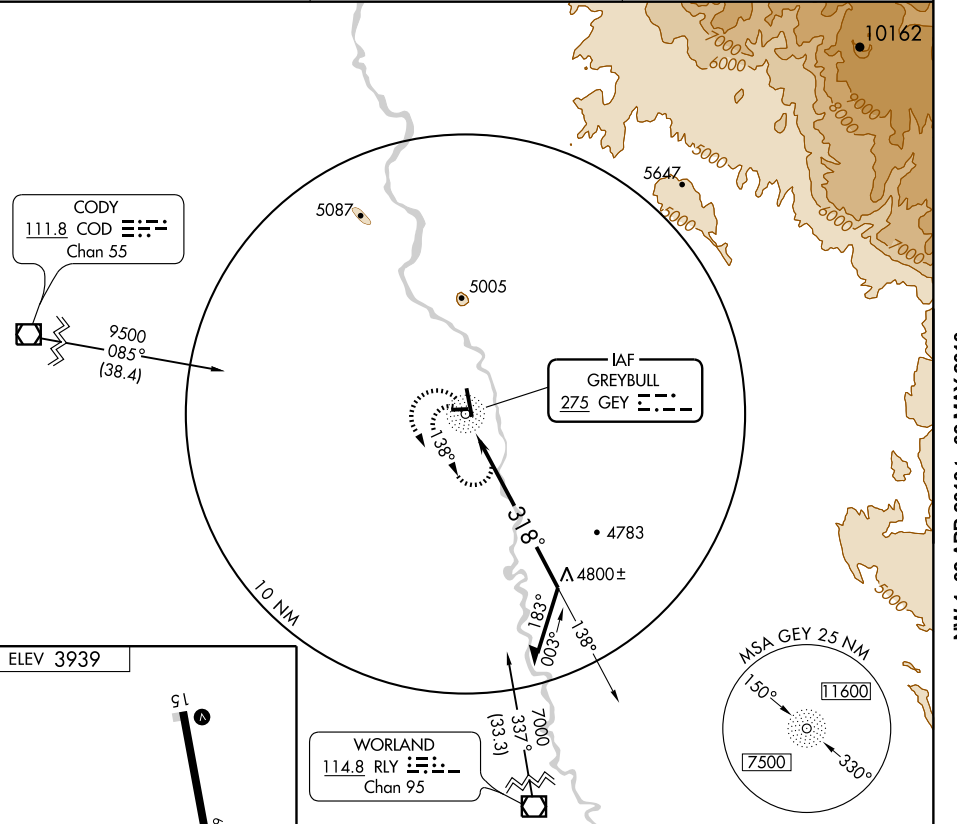
▼

▲ NA

If local altimeter setting not received, use Worland altimeter setting and increase all MDAs 120 feet.
Visibility reduction by helicopter NA.

MISSED APPROACH: Climbing left turn to 6500 in GEY NDB holding pattern.

ASOS 135,325	SALT LAKE CENTER 133.25 285.6	CTAF 122.8 0
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6500	GEY 275	NDB	138°	6300	318°	Remain within 10 NM
CATEGORY	A	B	C	D		
S-33	5200-1¼ 1287 (1300-1¼)	5200-1½ 1287 (1300-1½)	5200-3	1287 (1300-3)		
CIRCLING	5200-1¼ 1261 (1300-1¼)	5200-1½ 1261 (1300-1½)	5200-3	1261 (1300-3)		

RNAV (GPS)-A

GREYBULL/ SOUTH BIG HORN COUNTY (GEY)

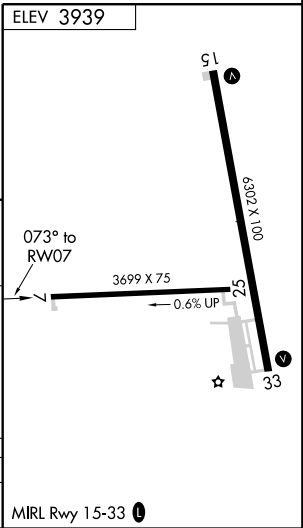
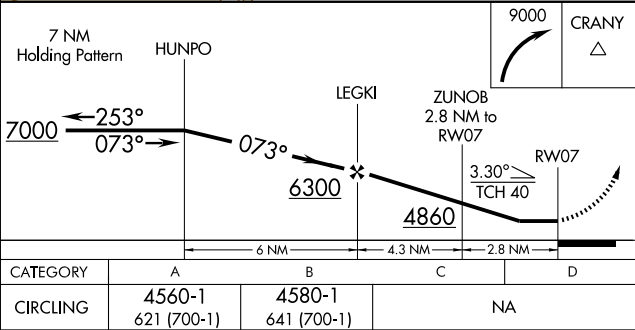
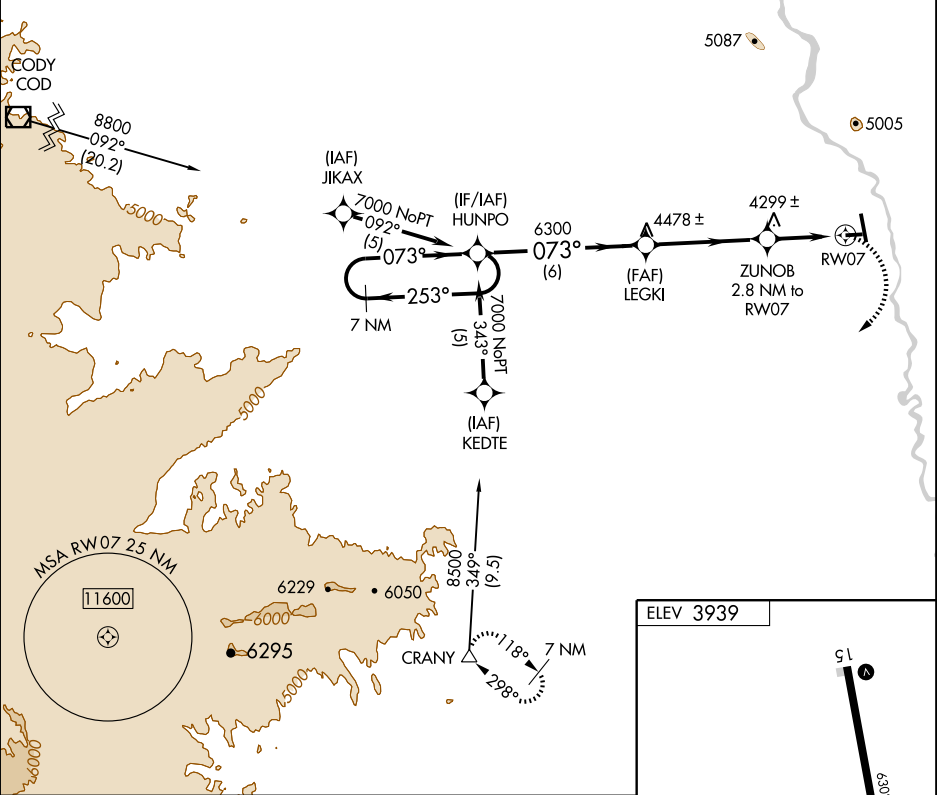
APP CRS	Rwy Idg	N/A
073°	TDZE	N/A
	Apt Elev	3939

DME/DME RNP -0.3 NA.
If local altimeter setting not received, use Worland Muni
altimeter setting and increase all MDAs 120 feet.
Circling to Rwy 7/25 NA at night.

MISSED APPROACH: Climbing right turn to 9000 direct
CRANY and hold, continue climb-in-hold to 9000.

ASOS 135.325	SALT LAKE CENTER 133.25 285.6	CTAF 122.8
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Procedure NA for arrivals at COD VOR/DME via V85 northwest bound.



▼

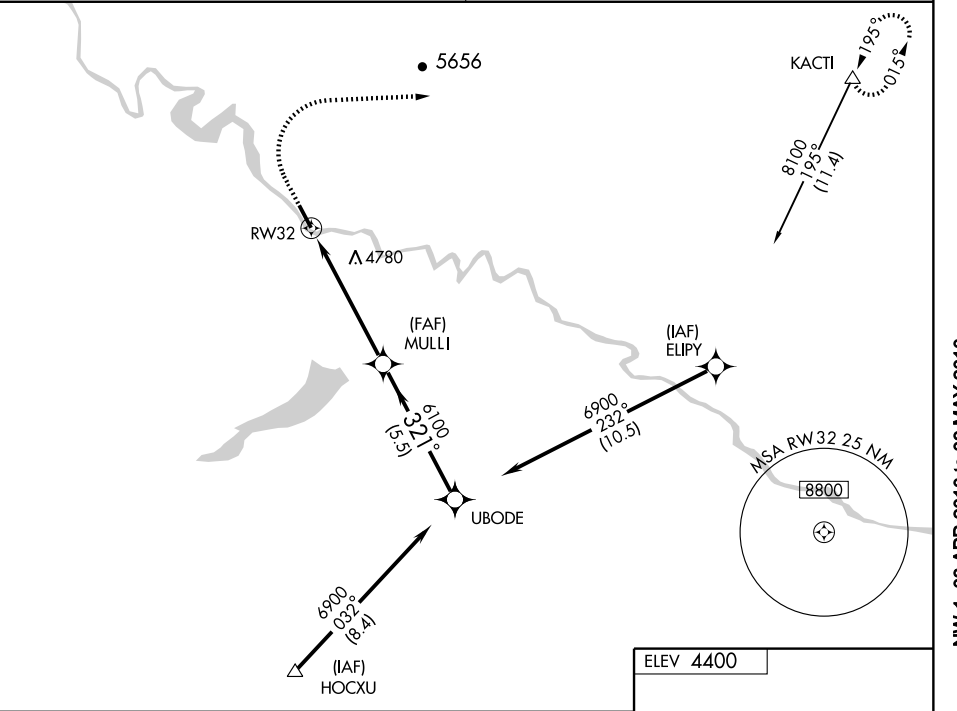
▲ NA

Obtain local altimeter setting on UNICOM, when not received use Scottsbluff, NE altimeter setting.
Descent angle NA when using Scottsbluff altimeter setting.

MISSED APPROACH: Climb to 5600 then climbing right turn to 8100 direct KACTI WP and hold.

DENVER CENTER
135.6 363.025

UNICOM
122.7 (CTAF) 0



5600

8100

KACTI

VGSI and descent angles not coincident.

UBODE

MULLI

321°

6900

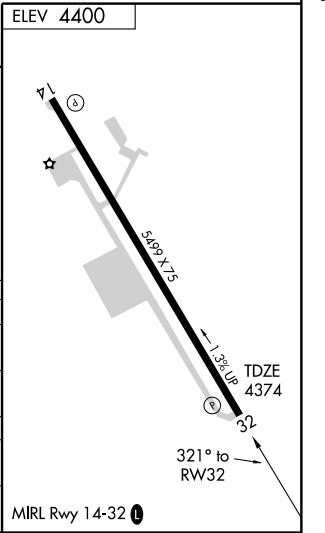
6100

Procedure Turn NA

5.5 NM

5.5 NM

CATEGORY	A	B	C	D
S-32	5040-1	666 (700-1)	5040-1¾ 666 (700-1¾)	5040-2 666 (700-2)
CIRCLING	5340-1¼ 940 (1000-1¼)	5340-1½ 940 (1000-1½)	5420-3	1020 (1100-3)
SCOTTSBLUFF, NE ALTIMETER SETTING MINIMUMS				
S-32	5240-1	866 (900-1)	5240-2¾	866 (900-2¾)
CIRCLING	5540-1¼ 1140 (1200-1¼)	5540-1½ 1140 (1200-1½)	5620-3	1220 (1300-3)



NDB GYZ
280

APP CRS
321°

Rwy Idg	5499
TDZE	4374
Apt Elev	4400

NDB RWY 32

GUERNSEY/CAMP GUERNSEY (7V6)

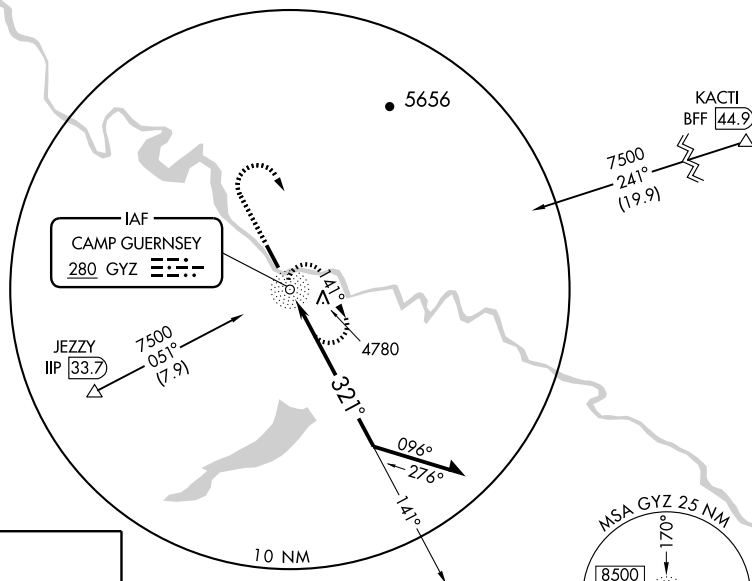


When control tower closed obtain local altimeter setting on UNICOM, when not received use Scottsbluff, NE altimeter setting and increase all MDAs 200 feet and increase CATs B and C visibilities $\frac{1}{4}$ mile.



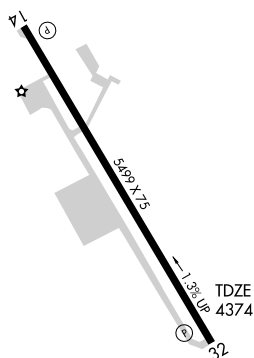
MISSED APPROACH: Climb to 5700 then climbing right turn to 7000 direct GYZ NDB and hold.

DENVER CENTER
135.6 363.025

UNICOM
122.7 (CTAF) **L**

NW-1. 08 APR 2010 to 06 MAY 2010

ELEV 4400



5700



7000



GYZ



NDB

Remain
within 10 NM

-1419

-321

CATEGORY	A	B	C	D
S-32	5280-1¼	906 (900-1¼)	5280-2¾ 906 (900-2¾)	5280-3 906 (900-3)
CIRCLING	5340-1¼ 940 (1000-1¼)	5340-1½ 940 (1000-1½)	5420-3	1020 (1100-3)

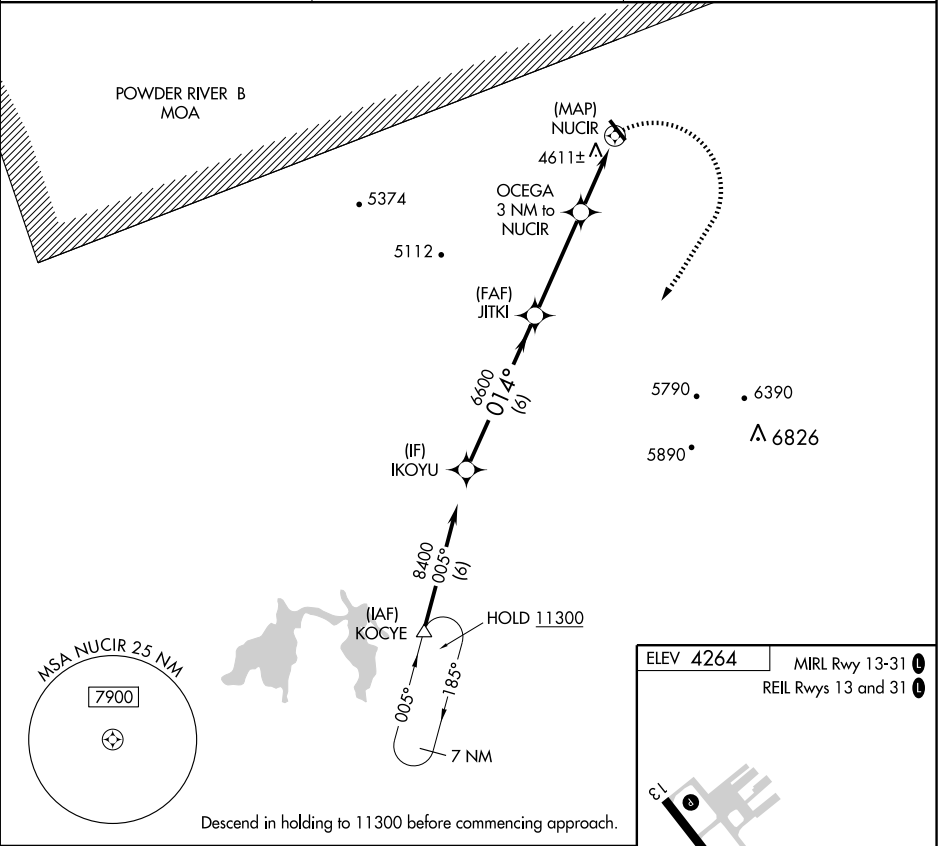
MIRL Rwy 14-32 **L**

APP CRS	Rwy Idg	N/A
014°	TDZE	N/A
	Apt Elev	4264

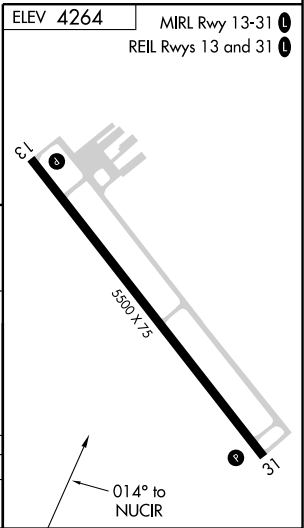
Procedure NA at night. DME/DME RNP-0.3 NA.
If local altimeter setting not received, use Gillette altimeter setting and increase all MDAs 120 feet.

MISSED APPROACH: Climbing right turn to 15000 direct KOCYE and hold, continue climb-in-hold to 15000.

AWOS-3 128.755	DENVER CENTER 127.95 338.2	UNICOM 122.8 (CTAF) 0
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CATEGORY	IKOYU		JITKI		OCEGA 3 NM to NUCIR		NUCIR	
	8400		6600		5620		15000	
CIRCLING	A		B		C		D	
	4920-1 656 (700-1)		5060-1¼ 796 (800-1¼)		NA		NA	



AIRPORT DIAGRAM

AL-504 (FAA)

JACKSON HOLE (JAC)
JACKSON, WYOMING

ATIS 120.625
JACKSON TOWER ★
118.075
GND CON
124.55



JANUARY 2005
ANNUAL RATE OF CHANGE
0.1° W

RWY 1-19
S75, D200, ST175, DT380

FIELD
ELEV
6451

186.4°

61

A4

43°36.5'N

★
CONTROL
TOWER
6506

6300 X 150

A

A

A2

TERMINAL

HANGARS

006.4°

0.6% UP

A

ELEV
6413

7

110°44.5'W

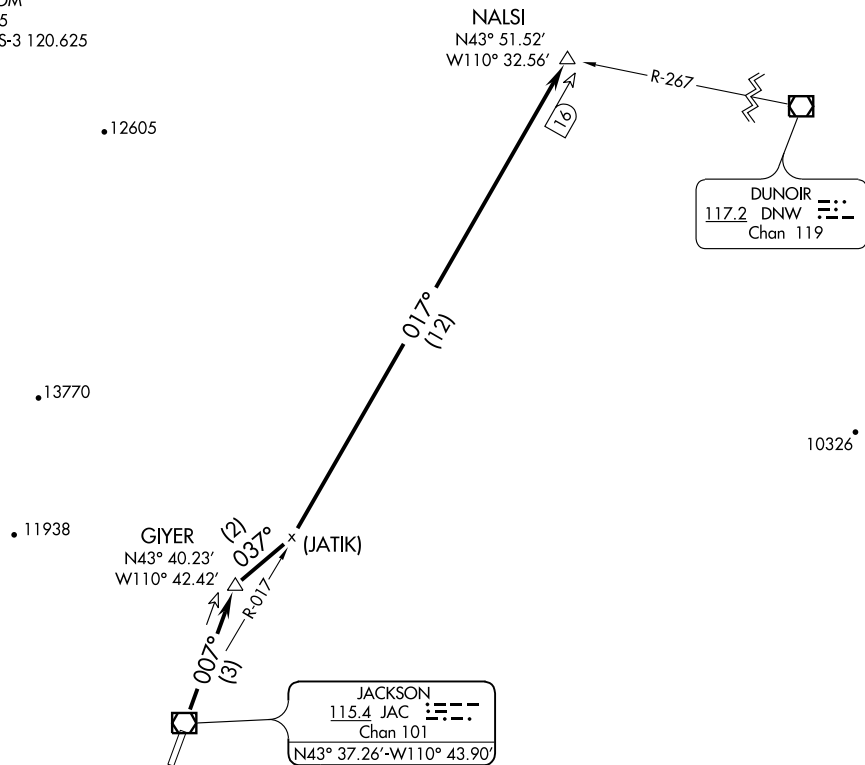
110°44'W

CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS
IS REQUIRED.

NW-1, 08 APR 2010 to 06 MAY 2010

GEYSER FOUR DEPARTURE (OBSTACLE)

SALT LAKE CENTER
133.25 285.6
CASPER RADIO
122.05
CTAF
118.075
UNICOM
122.95
AWOS-3 120.625

TAKE-OFF MINIMUMS

Rwy 1: Standard with minimum climb of 450' per NM to 14000, or 4400-3 for climb in visual conditions.

Rwy 19: Not authorized - ATC.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 1: Climb to 14000 via JAC R-007 to GIYER/JAC 3 DME, then right turn heading 037° to intercept JAC R-017 to NALSI INT/JAC 16 DME; or for climb visual conditions: Cross JAC VOR/DME northbound at or above 10800 then climb to 14000 via JAC R-017 to NALSI INT/JAC 16 DME.

LOC/DME I-JAC 109.1 Chan 28	APP CRS 187°	Rwy Idg 6300 TDZE 6451 Apt Elev 6451
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ILS or LOC Y RWY 19
JACKSON HOLE (JAC)

T	Inoperative table does not apply.
A NA	Circling NA east of Rwy 1-19.

MALS
A₄

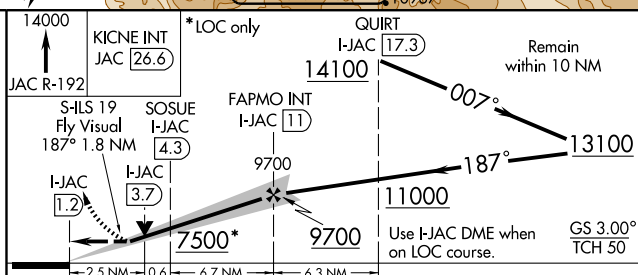
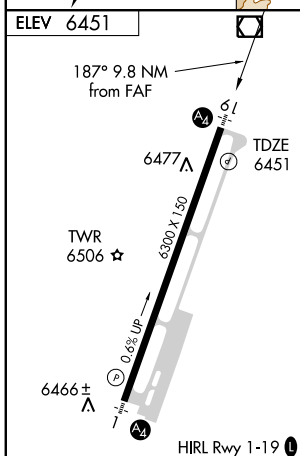
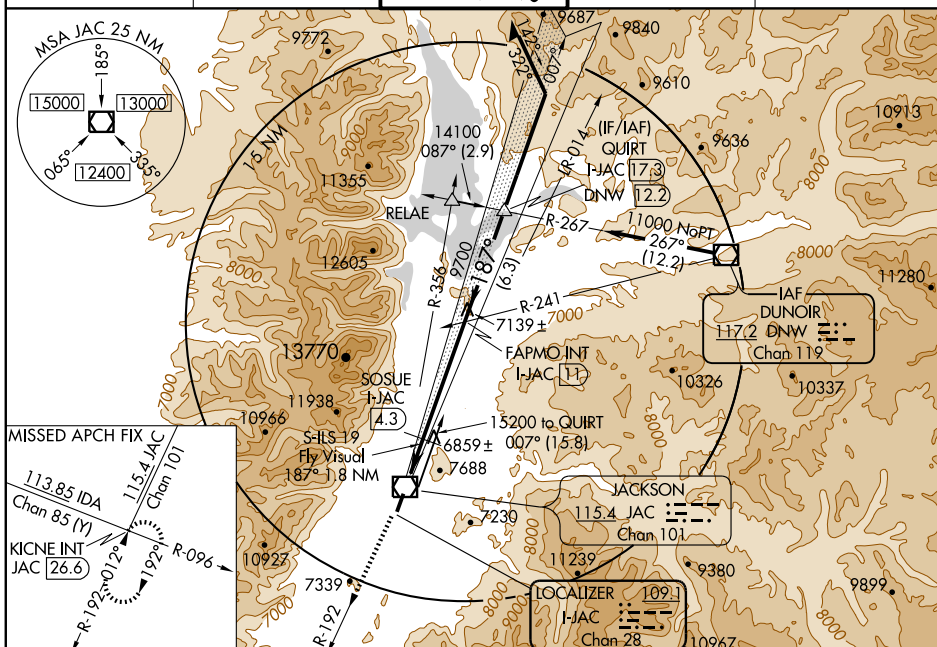
MISSED APPROACH: Climb to 14000 via JAC VOR/DME R-192 to KICNE INT/JAC VOR/DME 26.6 DME and hold, continue climb-in-hold to 14000.

ATIS
120-625

SALT LAKE CENTER
133.25 285.6

JACKSON TOWER★
118.075 (CTAF)

GND COM
124.55

UNICOM
122.95

CATEGORY	A	B	C	D
S-ILS 19	7063-2 612 (700-2)			
S-LOC 19	7500-1¼ 1049 (1100-1¼)	7500-1½ 1049 (1100-1½)	7500-3	1049 (1100-3)
CIRCLING	7500-1¼ 1049 (1100-1¼)	7500-1½ 1049 (1100-1½)	7500-3	1049 (1100-3)
SOSUE FIX MINIMUMS				
S-LOC 19	7300-1 849 (900-1)	7300-1¼ 849 (900-1¼)	7300-2½ 849 (900-2½)	7300-2¾ 849 (900-2¾)
CIRCLING	7300-1 849 (900-1)	7300-1¼ 849 (900-1¼)	7300-2½ 849 (900-2½)	7300-2¾ 849 (900-2¾)

LOC/DME I-JAC 109.1 Chan 28	APP CRS 187°	Rwy Idg 6300 TDZE 6451 Apt Elev 6451
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ILS or LOC Z RWY 19
JACKSON HOLE (JAC)

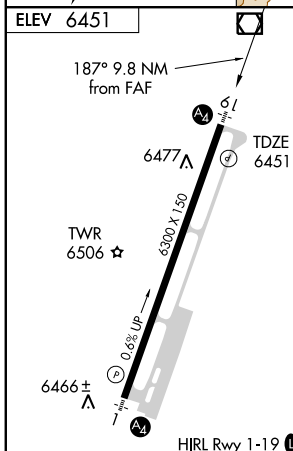
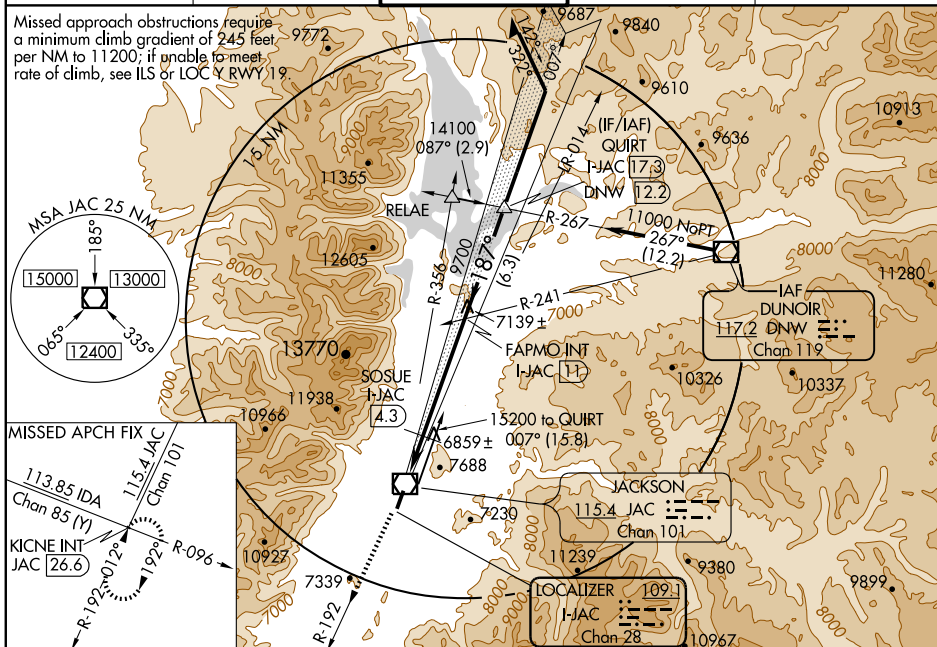
T
A NA Inoperative table does not apply to S-LOC 19.
Circling NA east of Rwy 1-19.

MALS

MISSED APPROACH: Climb to 14000 via JAC VOR/DME R-192 to KICNE INT/JAC VOR/DME 26.6 DME and hold, continue climb-in-hold to 14000.

ATIS 120.625	SALT LAKE CENTER 133.25 285.6	JACKSON TOWER* 118.075 (CTAF) 0	GND CON 124.55	UNICOM 122.95
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Missed approach obstructions require a minimum climb gradient of 245 feet per NM to 11 200; if unable to meet rate of climb, see ILS or LOC & RWY 19



HIRL Rwy 1-19						SOSUE FIX MINIMUMS				
FAF to MAP 9.8 NM						S-LOC 19	6840-¾ 389 (400-¾)			6840-1¼ 389 (400-1¼)
Knots	60	90	120	150	180	CIRCLING	6840-1	6920-1	6920-1½	7080-2
Min:Sec	9:48	6:32	4:54	3:55	3:16		389 (400-1)	469 (500-1)	469 (500-1½)	629 (700-2)

WAAS CH 58299 W01A	APP CRS 006°	Rwy Idg TDZE Apt Elev	6300 6431 6451
--	------------------------	-----------------------------	---

RNAV (GPS) X RWY 1

JACKSON HOLE (JAC)

⚠ Circling NA east of Rwy 1-19. Inoperative table does not apply.

⚠ If local altimeter setting not received, procedure NA.

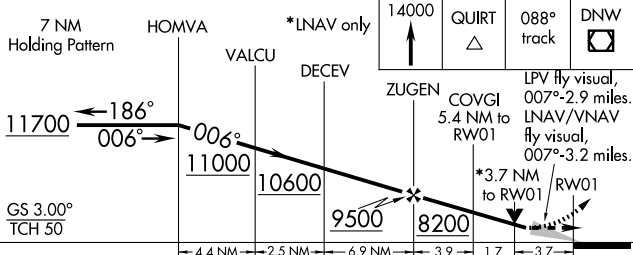
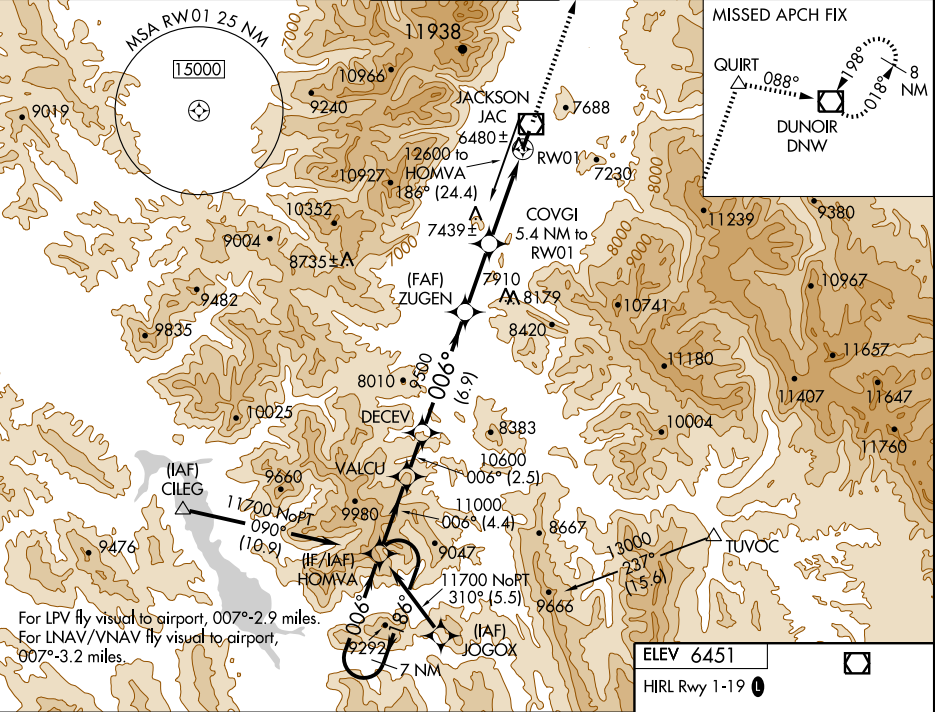
Baro-VNAV NA below -27°C (-16°F). DME/DME RNP-0.3 NA.

MALS

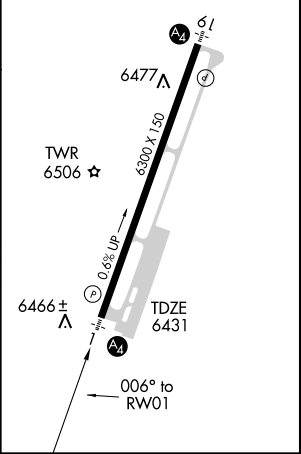
⚠

MISSED APPROACH: Climb to 14000 direct QUIRT and via 088° track to DNW VOR/DME and hold, continue climb-in-hold to 14000.

ATIS 120.625	SALT LAKE CENTER 133.25 285.6	JACKSON TOWER* 118.075 (CTAF) ⚠	GND CON 124.55	UNICOM 122.95
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CATEGORY	A	B	C	D
LPV DA		7393-2	962 (1000-2)	
LNAV/VNAV DA	7470-2	1039 (1100-2)	7470-3	1039 (1100-3)
LNAV MDA	7640-1¼ 1209 (1200-1¼)	7640-1½ 1209 (1200-1½)	7640-3	1209 (1200-3)
CIRCLING	7640-1¼ 1189 (1200-1¼)	7640-1½ 1189 (1200-1½)	7640-3	1189 (1200-3)

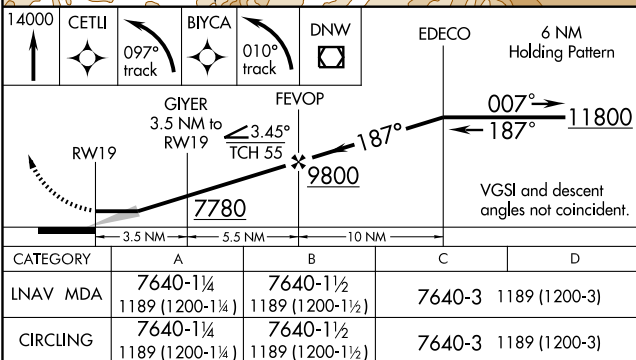
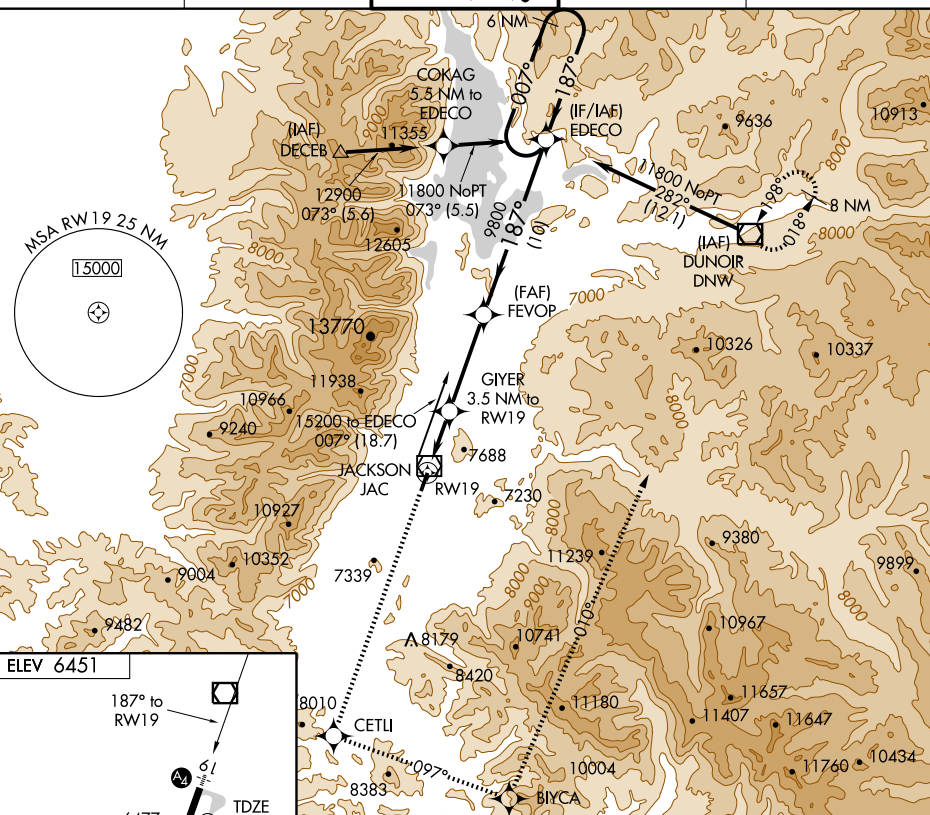


APPROACH: Climb to 14000 direct CETU and left 097° track to BIYCA and left turn via 010° track to OR/DME and hold.

T Circling NA east of Rwy 1-19. DME/DME RNP- 0.3 NA.
A Inoperative table does not apply.
 If local altimeter setting not received, procedure NA.

MALS


ATIS	SALT LAKE CENTER	JACKSON TOWER★	GND CON	UNICOM
120.625	133.25 285.6	118.075 (CTAF) L	124.55	122.95



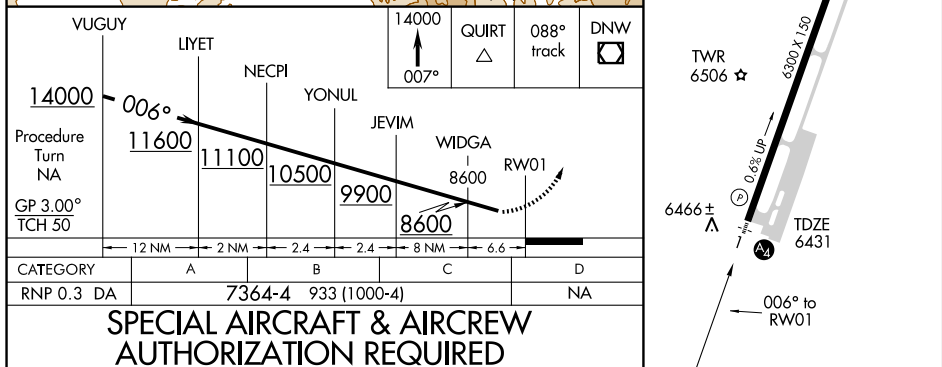
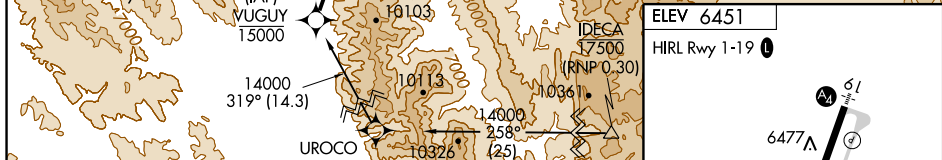
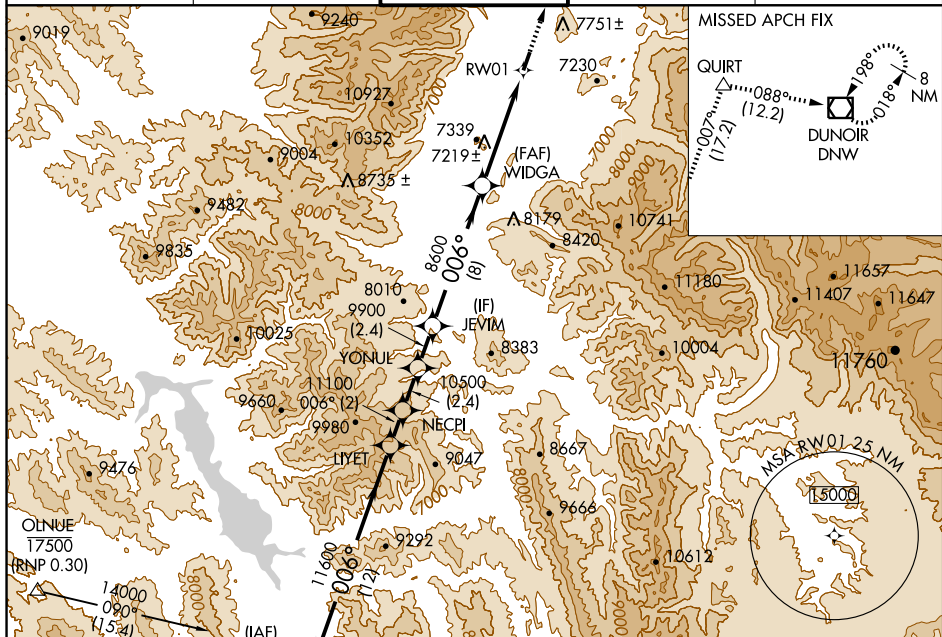
APP CRS	Rwy Idg	6300
006°	TDZE	6431
	Apt Elev	6451

RNAV (RNP) Y RWY 1

JACKSON HOLE (JAC)

<p>GPS required. For uncompensated Baro-VNAV systems, procedure NA below -28°C (-18°F) or above 36°C (97°F). Inoperative table does not apply. Visibility reduction by helicopters NA. When VGSI inoperative, procedure NA at night.</p>	<p>MALS</p> 	<p>MISSED APPROACH: Climb to 14000 via track 007° to QUIRT and via track 088° to DNW VOR/DME and hold, continue climb-in-hold to 14000.</p>
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ATIS 120.625	SALT LAKE CENTER 133.25 285.6	JACKSON TOWER★ 118.075 (CTAF)	GND CON 124.55	UNICOM 122.95
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APP CRS	Rwy Idg	6300
006°	TDZE	6431
	Apt Elev	6451

RNAV (RNP) Z RWY 1

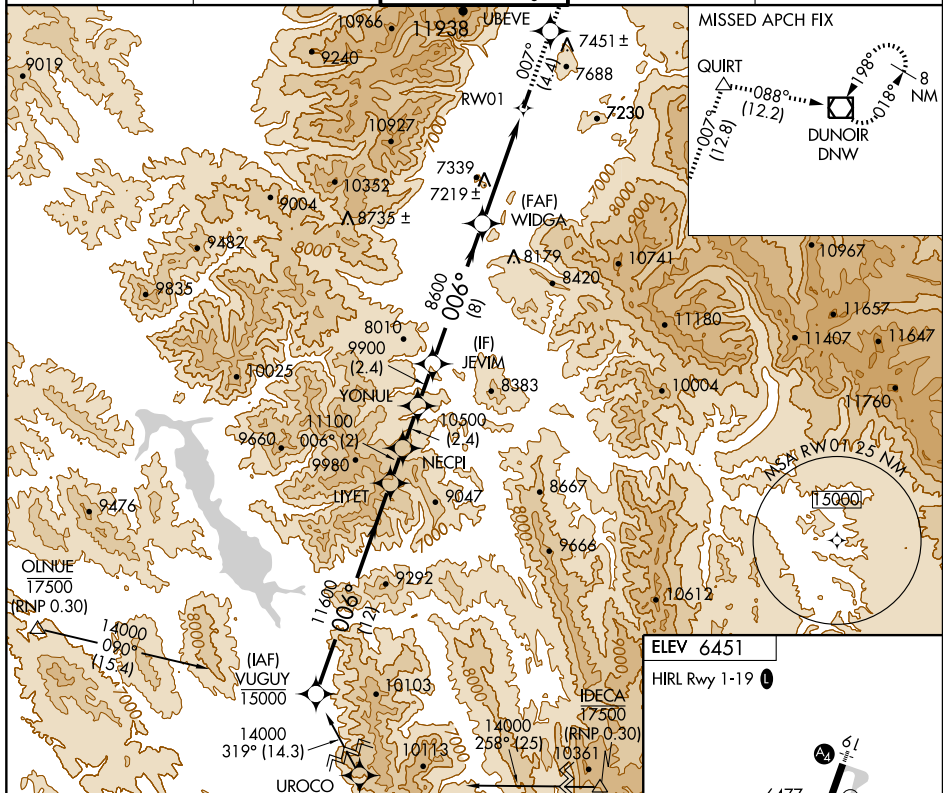
JACKSON HOLE (JAC)

GPS required. For uncompensated Baro-VNAV systems, procedure NA below -28°C (-18°F) or above 36°C (97°F). For inoperative MALS, increase RNP 0.30 visibility all cats to 1½. Visibility reduction by helicopters NA. When VGSI inoperative, procedure NA at night. Missed approach requires RNP less than 1.0 and minimum climb of 280 feet per NM to 8100; if unable, see RNAV (RNP) Y RWY 1.



MISSED APPROACH: Climb to 14000 via track 007° to UBEVE and via track 007° to QUIRT and via track 088° to DNW VOR/DME and hold, continue climb-in-hold to 14000.

ATIS 120.625	SALT LAKE CENTER 133.25 285.6	JACKSON TOWER★ 118.075 (CTAF)	GND CON 124.55	UNICOM 122.95
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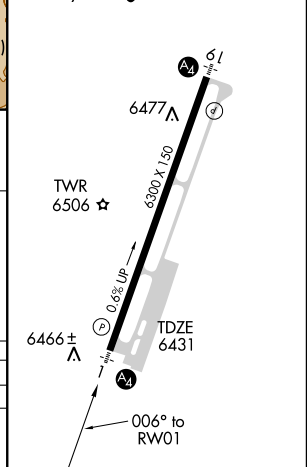


VUGUY	LYET	14000	UBEVE	007°	QUIRT	088°	DNW
Procedure Turn NA	11600	11100	10500	9900	8600	8600	8600
GP 3.00°	12 NM	2 NM	2.4	2.4	8 NM	6.6	
TCH 50							
CATEGORY	A	B	C	D			
RNP 0.3 DA	6811-1	380 (400-1)					

SPECIAL AIRCRAFT & AIRCREW AUTHORIZATION REQUIRED

ELEV 6451

HIRL Rwy 1-19



JACKSON HOLE (JAC)

MISSED APPROACH: Climb to 14000 via track 187° to NECPI and via track 096° to VECUR and via left turn on track 348° to DNW VOR/DME and hold.

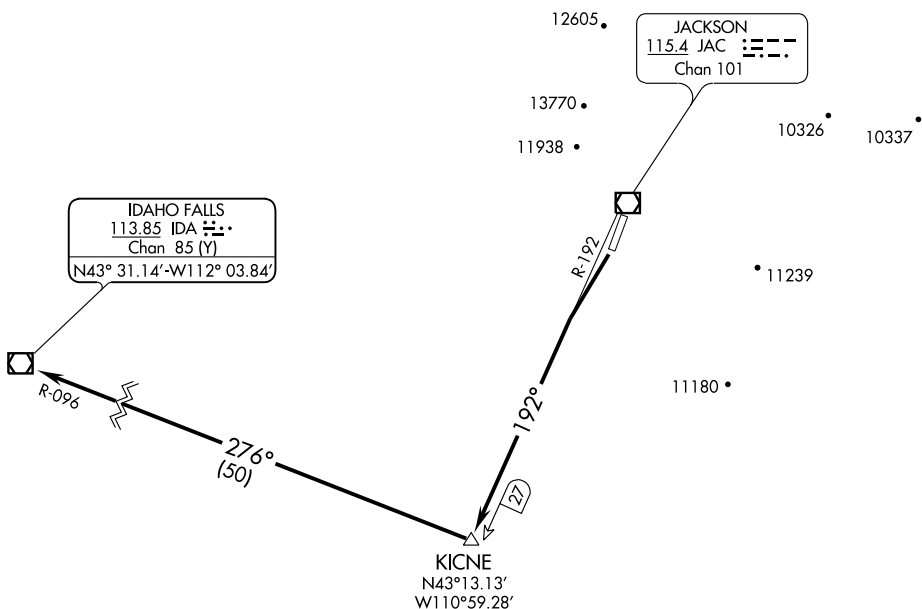
122.95

Diagram illustrating a radio tower structure with various elevation and distance markers:

- ELEV 6451**: Elevation at the top of the tower.
- 187° to RW19**: Directional bearing from the top of the tower.
- TDZE 6451**: Terrain Data Zone Elevation at the top of the tower.
- 6477 Δ** : Elevation at a point on the tower.
- 6300 X 150**: Distance and width measurement along the tower.
- TWR 6506 \star** : Tower identification and elevation.
- 0.65° Up**: Angle measurement along the tower.
- 6466 \pm Δ** : Elevation at the base of the tower.

HIRL Rwy 1-19 **L**

SALT LAKE CENTER
133.25 285.6
CASPER RADIO
122.05
CTAF
118.075
UNICOM
122.95
AWOS-3 120.625



TAKE-OFF MINIMUMS:

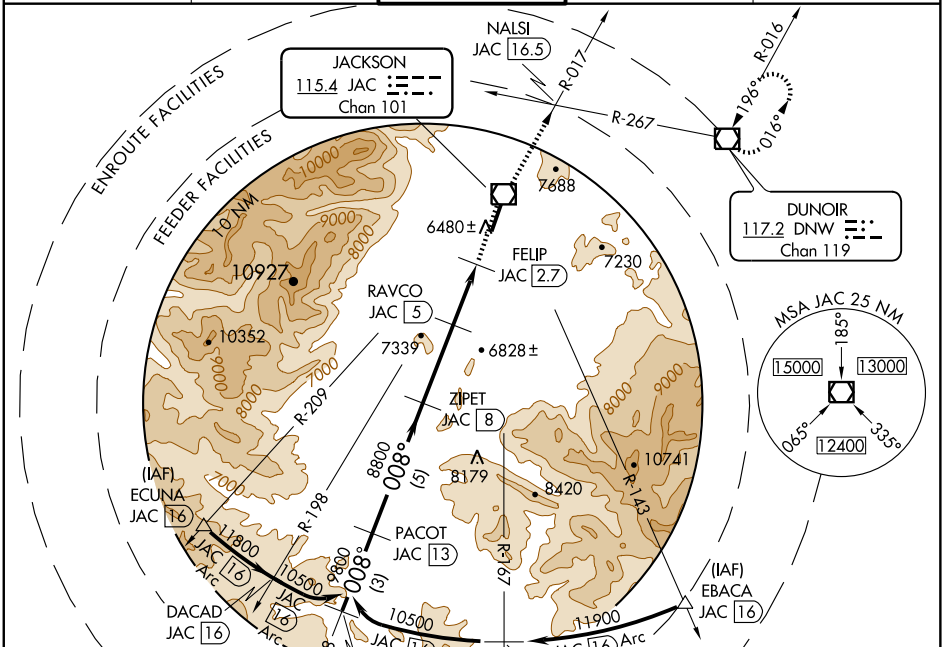
Rwy 19: Standard with minimum climb of 335' per NM to
14000 or 4400-3 for climb in visual conditions.
Rwy 1: Not authorized - ATC.

NOTE: Rwy 19, Bush 485 feet from departure end of runway, 513 feet right of centerline, 6428' MSL.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 19: Climb to 14000 via JAC R-192 to KICNE INT/JAC 27 DME, then right turn via IDA R-096 to IDA VOR/DME; or for climb in visual conditions: cross JAC VOR/DME southbound at or above 10800, then climb to 14000 via JAC R-192 to KICNE INT/JAC 27 DME, then right turn via IDA R-096 to IDA VOR/DME.

ATIS 120.625	SALT LAKE CENTER 133.25 285.6	JACKSON TOWER★ 118.075 (CTAF) 0	GND CON 124.55	UNICOM 122.95
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CATEGORY	A	B	C	D
S-1	7380-1½ 949 (1000-1½)	7380-2¾ 949 (1000-2¾)	7380-3 949 (1000-3)	7380-3 949 (1000-3)
CIRCLING	7380-1½ 929 (1000-1½)	7380-2¾ 929 (1000-2¾)	7380-3 929 (1000-3)	7380-3 929 (1000-3)

V

▲

Circling NA east of Rwy 1-19.

Inoperative table does not apply.

If local altimeter setting not received, procedure NA.

MALS

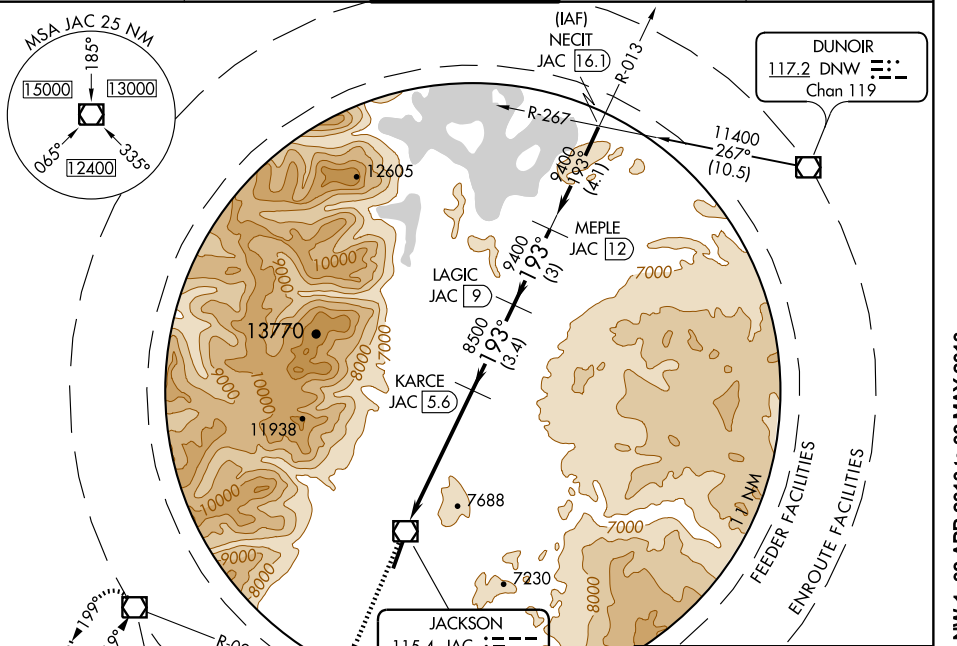
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A4

MISSED APPROACH: Climb to 14000 via JAC R-192 to KICNE INT/JAC 26.6 DME, and right turn via IDA R-096 to IDA VOR/DME and hold.

ATIS 120.625	SALT LAKE CENTER 133.25 285.6	JACKSON TOWER* 118.075 (CTAF) <div>A4</div>	GND CON 124.55	UNICOM 122.95
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14000

JAC R-192

KICNE JAC 26.6

IDA R-096

IDA 113.85

KARCE JAC 5.6

JAC 3.9

3.19°

TCH 38

VOR/DME

8500

9400

193°

9400

Procedure Turn NA

0.3

3.9 NM

1.7 NM

3.4 NM

3 NM

CATEGORY	A	B	C	D
S-19	7840-1¼ 1389 (1400-1¼)	7840-1½ 1389 (1400-1½)	7840-3	1389 (1400-3)
CIRCLING	7840-1¼ 1389 (1400-1¼)	7840-1½ 1389 (1400-1½)	7840-3	1389 (1400-3)

ELEV 6451

HIRL Rwy 1-19

A4

193° to VOR/DME

TDZE 6451

6477

TWR 6506 ☆

6300 X 130

0.63° UP

6466 ±

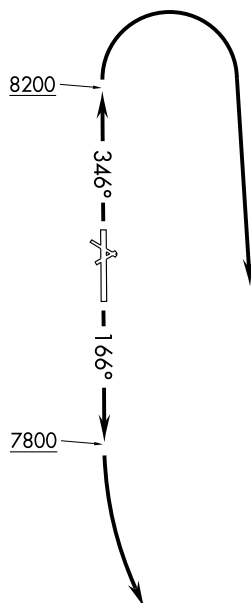
A4

A4

Knots	60	90	120	150	180
Min:Sec					

KEMRR TWO DEPARTURE (RNAV)

SALT LAKE CITY CENTER
124.35 353.5
SALT LAKE CITY DEP CON
124.3 322.3

TAKE-OFF MINIMUMS

Rwy 4, 10, 22, 28: NA - Rwy Surfaces.

Rwy 16, 34: Standard.

NOTE: 1. GPS Required.
2. RNAV 1.

NOTE: Chart not to scale.

FORT BRIDGER
FBR



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 16: Climb to 7800 via heading 166° then climbing left turn to 12000 (or assigned altitude) . . .

TAKE-OFF RUNWAY 34: Climb to 8200 via heading 346° then climbing right turn to 12000 (or assigned altitude) . . .

. . . direct FBR VOR/DME then via assigned route/fix.

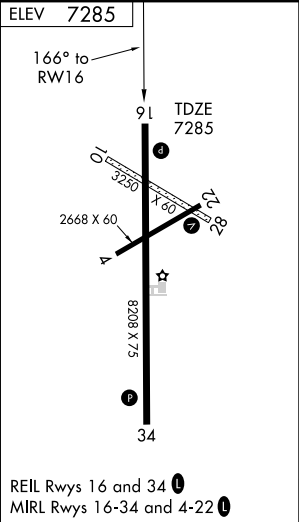
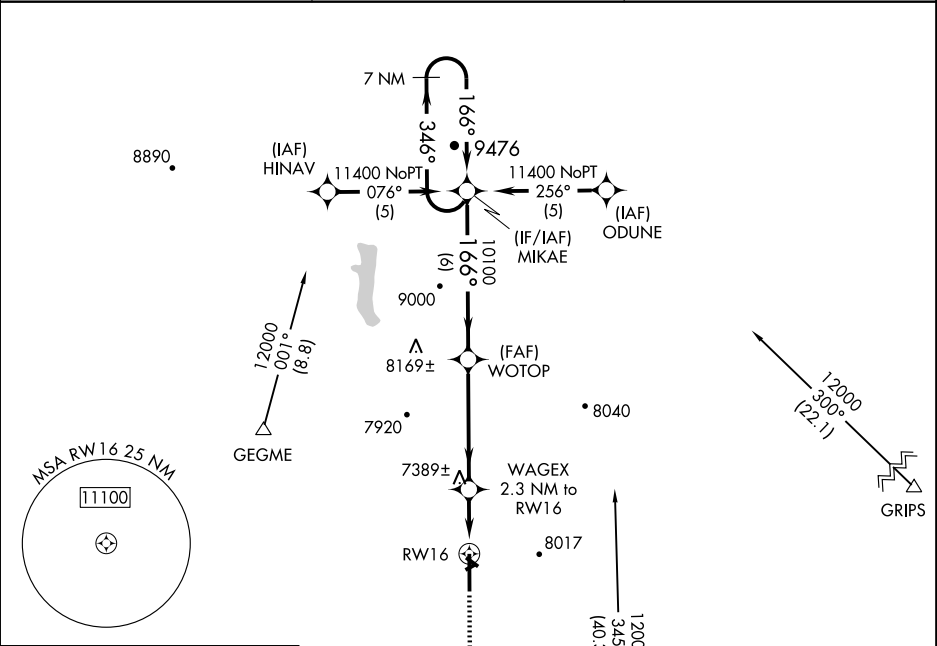
APP CRS	Rwy Idg	8208
166°	TDZE	7285
	Apt Elev	7285

RNAV (GPS) RWY 16

KEMMERER MUNI (EMM)

<p>NA</p> <p>DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. When local altimeter setting not received, use Evanston altimeter setting and increase all MDA 120 feet.</p>	<p>MISSED APPROACH: Climb to 9900 direct ILUME and hold.</p>
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<p>AWOS-3</p> <p>119.675</p>	<p>SALT LAKE CITY CENTER</p> <p>124.35 353.5</p>	<p>UNICOM</p> <p>122.8 (CTAF) 0</p>
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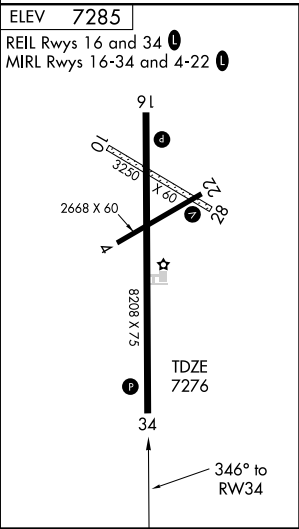
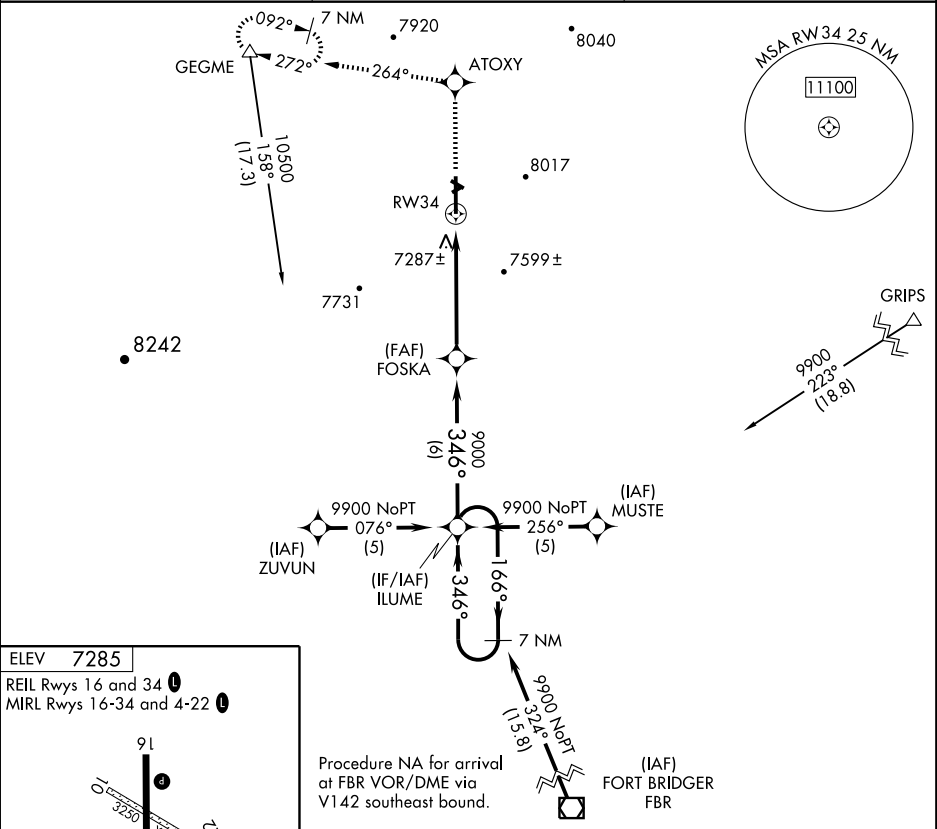
7 NM Holding Pattern MIKAE				9900	ILUME
11400 ← 346° 166° → 10100				WOTOP	
VGSI and descent angles not coincident.				WAGEX 2.3 NM to RW16	
6 NM 4.7 NM 2.3 NM				RW16	
CATEGORY	A	B	C	D	
LNNAV MDA	7720-1	435 (500-1)	NA		
CIRCLING	7720-1	7740-1	NA		
	435 (500-1)	455 (500-1)			

APP CRS	Rwy Idg	8208
346°	TDZE	7276
	Apt Elev	7285

RNAV (GPS) RWY 34
KEMMERER MUNI (EMM)

<p>▼ ▲ NA</p>	DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. When local altimeter setting not received, use Evanston altimeter setting and increase all MDA 120 feet.	MISSED APPROACH: Climb to 12000 direct ATOXY and via track 264° to GEGME and hold, continue climb-in-hold to 12000. When authorized by ATC, climb-in-hold to 14000.
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AWOS-3 119.675	SALT LAKE CITY CENTER 124.35 353.5	UNICOM 122.8 (CTAF) 0
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12000	ATOXY	trk 264°	GEGME	ILUME	7 NM Holding Pattern
↑	✧	△			
VGSI and descent angles not coincident.					
5.2 NM 6 NM					
CATEGORY	A	B	C	D	
LNNAV MDA	7540-1	264 (300-1)	NA	NA	
CIRCLING	7640-1	7740-1	NA	NA	
	355 (400-1)	455 (500-1)			

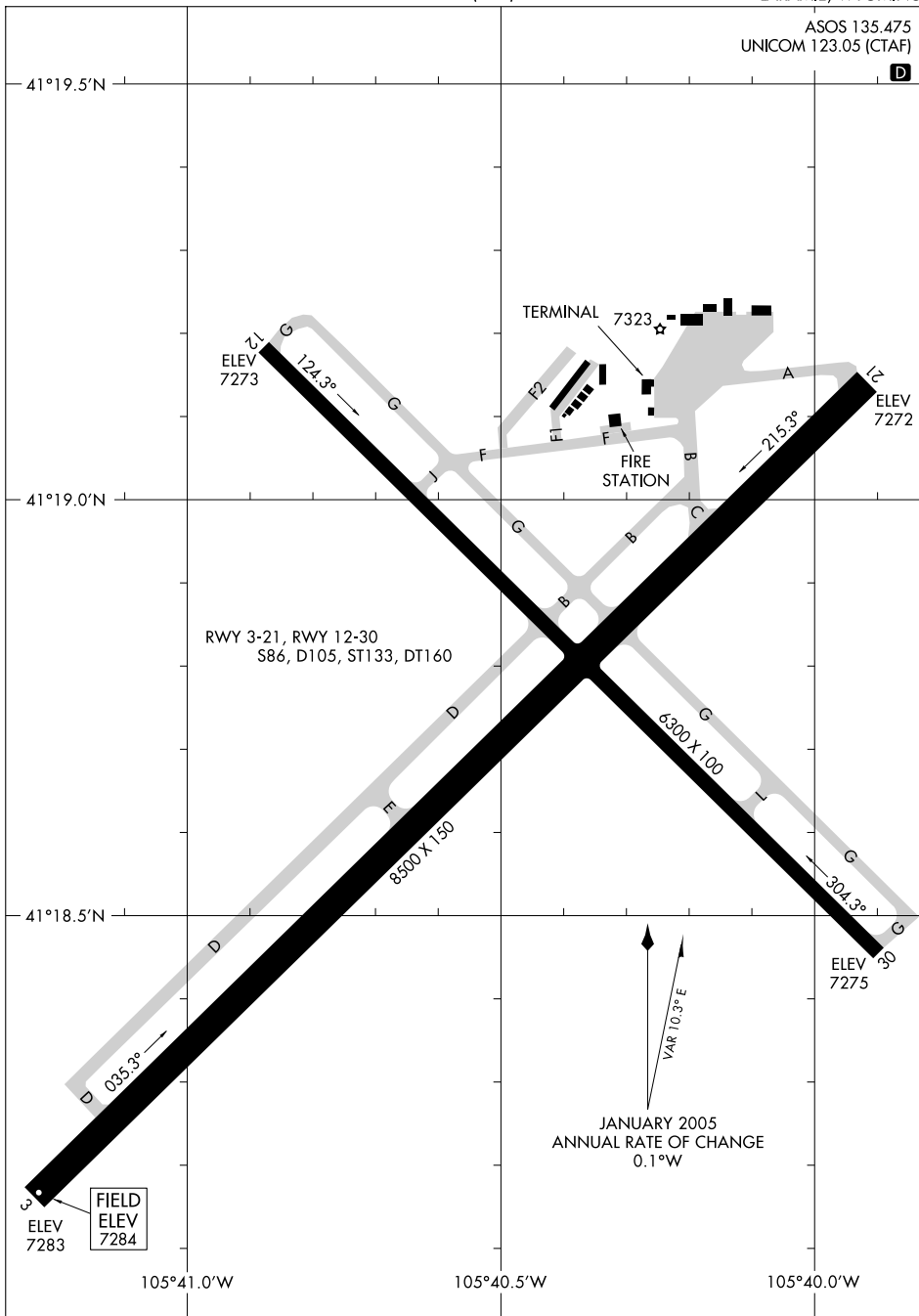
AIRPORT DIAGRAM

AL-225 (FAA)

LARAMIE RGNL (LAR)
LARAMIE, WYOMING

ASOS 135.475
UNICOM 123.05 (CTAF)

D



NW-1, 08 APR 2010 to 06 MAY 2010

WAAS

CH

70600

W12A

APP CRS

122°

Rwy Idg

TDZE

Apt Elev

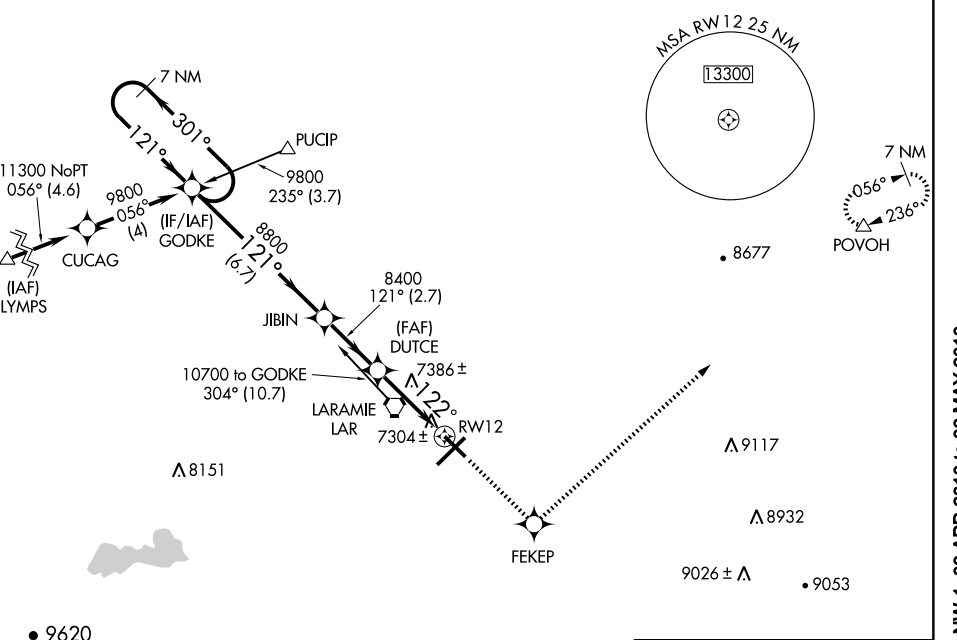
6300

7275

7284

MISSED APPROACH: Climb to 10700 direct FEKEP and via 035° track to POVOH and hold.

ASOS 135,475	DENVER CENTER 125.9 284.7	UNICOM 123.05 (CTAF) 0
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ELEV 7284

D

122° to RW12

TDZE 7275

8300 X 100

8500 X 150

7299

7323

12

30

3

2

1

7 NM Holding Pattern	GODKE	JIBIN	DUTCE	FEKEP	POVOH
9800	8800	8400	8400	7275	7299
301°	121°	121°	122°	035° track	12
GS 3.00° TCH 43	6.7 NM	2.7 NM	2.2 NM	1.2 NM	
CATEGORY	A	B	C	D	
LPV DA	7525-1 250 (300-1)				
RNAV/ VNAV DA	7622-1¼ 347 (400-1¼)				
RNAV MDA	7700-1 425 (500-1)		7700-1¼ 425 (500-1¼)		
CIRCLING	7700-1¼ 416 (500-1¼)	7740-1¼ 456 (500-1¼)	7740-1½ 456 (500-1½)	7840-2 556 (600-2)	

REIL Rwy 3, 12 and 21 0

MIRL Rwy 3-21 and 12-30 0

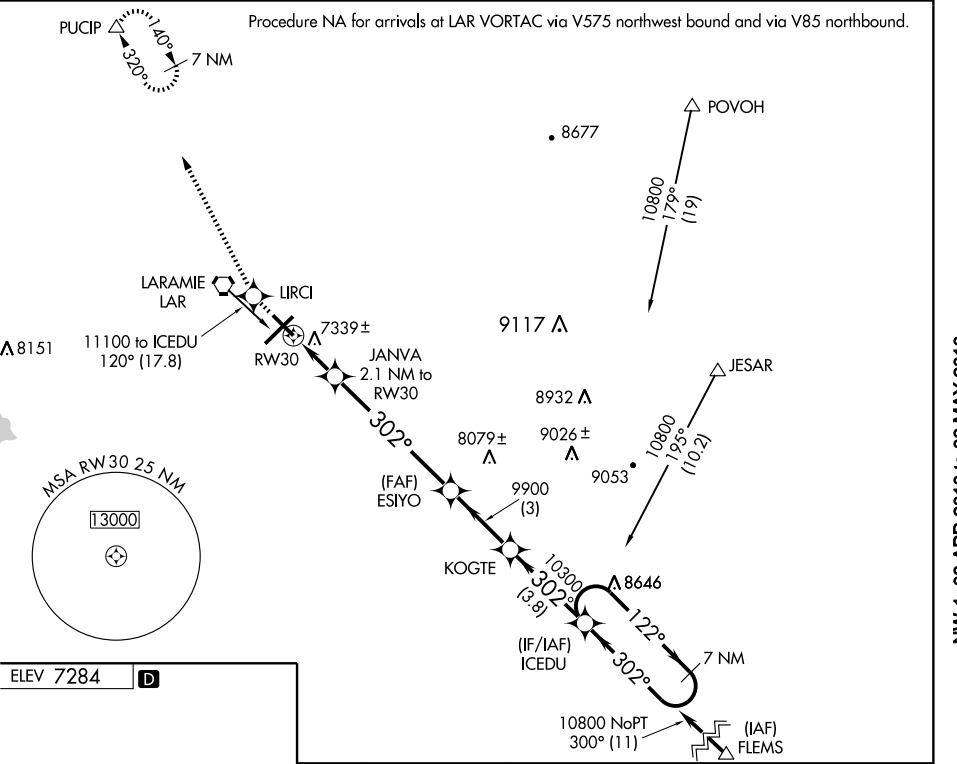
NW-1. 08 APR 2010 to 06 MAY 2010

▼ Inoperative table does not apply.
DME/DME RNP -0.3 NA.
For uncompensated Baro-VNAV systems, LNAV/VNAV
NA below -29°C (-20°F) or above 35°C (95°F).

ODALS

MISSED APPROACH: Climb to 9400 direct LIRCI and via
320° track to PUCIP and hold.

ASOS 135.475	DENVER CENTER 125.9 284.7	UNICOM 123.05 (CTAF) 0
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ELEV 7284	D	9400	LIRCI	320° track	PUCIP	ICEDU	7 NM Holding Pattern
		*LNAV only		JANVA 2.1 NM to RW30	ESIYO	KOGTE	122° → 10800
		*0.9 NM to RW30					← 302°
		RW30		7980	9900	10300	GS 3.00° TCH 41
		0.9 1.2 NM		5.8 NM		3 NM 3.8 NM	
CATEGORY	A		B		C		D
LPV DA			7528-1		250 (300-1)		
LNAV/VNAV DA			7629-1¼		351 (400-1¼)		
LNAV MDA			7600-1		322 (400-1)		
CIRCLING	7660-1¼ 376 (400-1¼)		7740-1¼ 456 (500-1¼)		7740-1½ 456 (500-1½)		7840-2 556 (600-2)

REIL Rwy 3, 12 and 21 0
MIRL Rwy 3-21 and 12-30 0

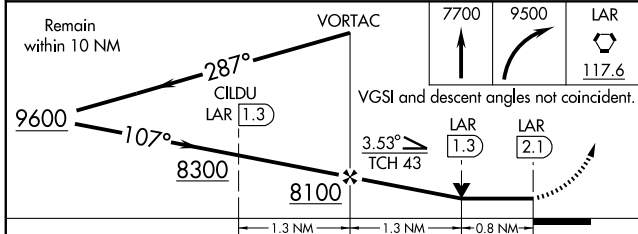
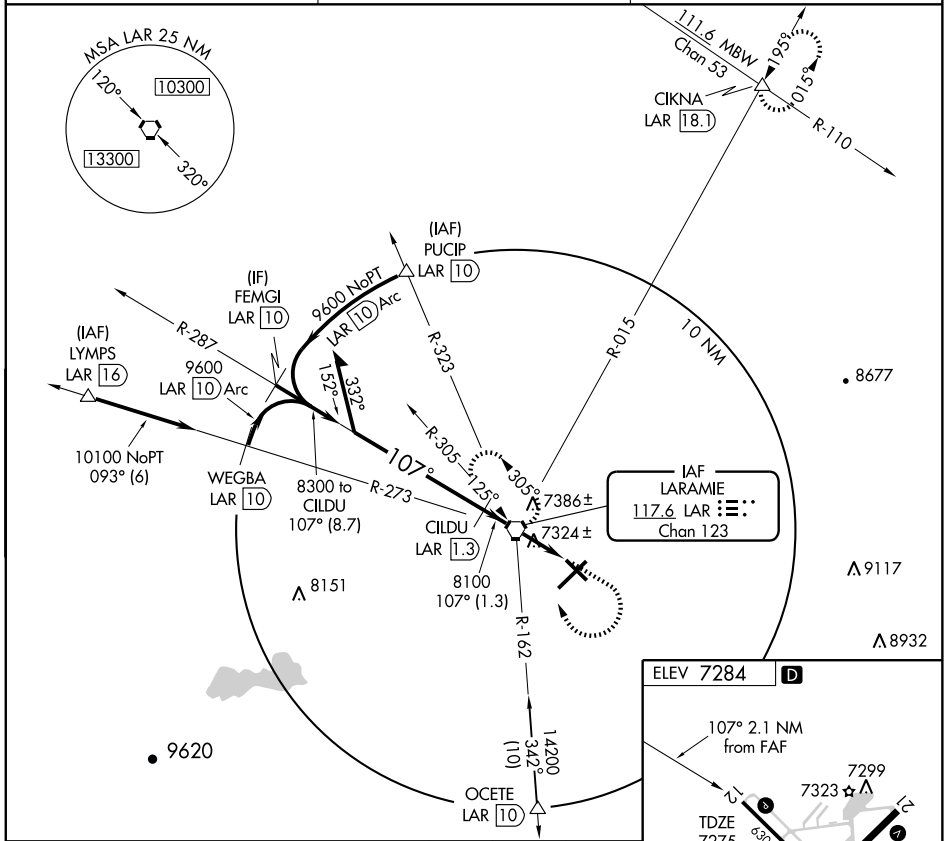
VORTAC LAR	APP CRS	Rwy Idg	6300
117.6	107°	TDZE	7275
Chan 123		Apt Elev	7284

VOR/DME or TACAN RWY 12

LARAMIE RGNL (LAR)

	MISSED APPROACH: Climb to 7700 then climbing right turn to 9500 direct LAR VORTAC and hold, continue climb-in-hold to 9500 (TACAN aircraft continue climb to 10600 via LAR VORTAC R-015 to CIKNA/18.1 DME and hold north, left turn, 195° inbound).
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ASOS 135.475	DENVER CENTER 125.9 284.7	UNICOM 123.05 (CTAF) 1
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CATEGORY	A	B	C	D
S-12	7580-1	305 (300-1)		
CIRCLING	7660-1 376 (400-1)	7740-1 456 (500-1)	7740-1½ 456 (500-1½)	7840-2 556 (600-2)

REIL Rwy 3, 12 and 21 1
MRL Rwy 3-21 and 12-30 1

VORTAC LAR <u>117.6</u> Chan 123	APP CRS 292°	Rwy Idg 6300 TDZE 7278 Apt Elev 7284
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VOR/DME or TACAN RWY 30

LARAMIE RGNL (LAR)



ODALS

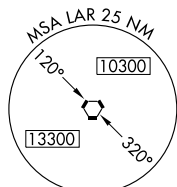
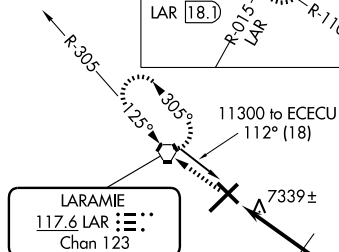
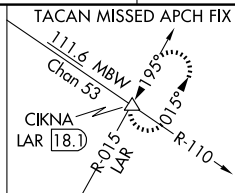


MISSED APPROACH: Climb to 9500 direct LAR VORTAC and hold, continue climb-in-hold to 9500 (TACAN aircraft continue climb to 10600 via LAR VORTAC R-015 to CIKNA INT/18.1 DME and hold north, left turns, 195° inbound).

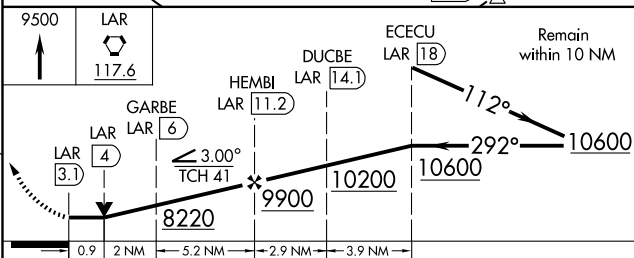
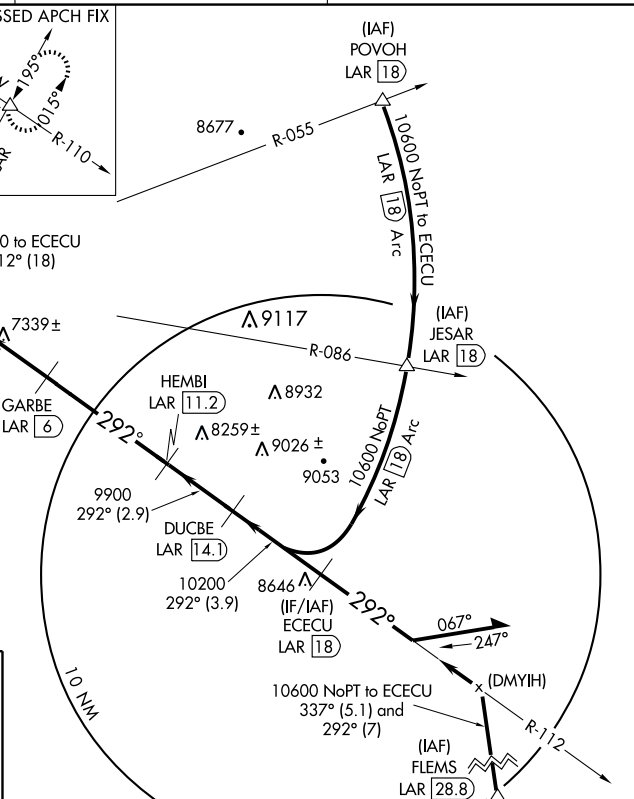
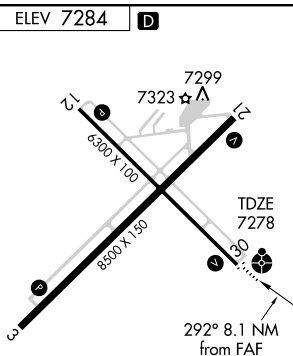
ASOS
135.475

DENVER CENTER
125.9 284.7

UNICOM
123.05 (CTAF) 



ELEV 7284



CATEGORY	A	B	C	D
S-30	7600- $\frac{3}{4}$ 322 (400- $\frac{3}{4}$)			7600-1 322 (400-1)
CIRCLING	7660-1 376 (400-1)	7740-1 456 (500-1)	7740-1 $\frac{1}{2}$ 456 (500-1 $\frac{1}{2}$)	7840-2 556 (600-2)

REIL Rwys 3, 12 and 21 **L**MIRL Rwy 3-21 and 12-30 **L**

VOR	ECS	APP CRS	Rwy Idg	5300
108.2		323°	TDZE	4174
			Apt Elev	4174

VOR or GPS RWY 31

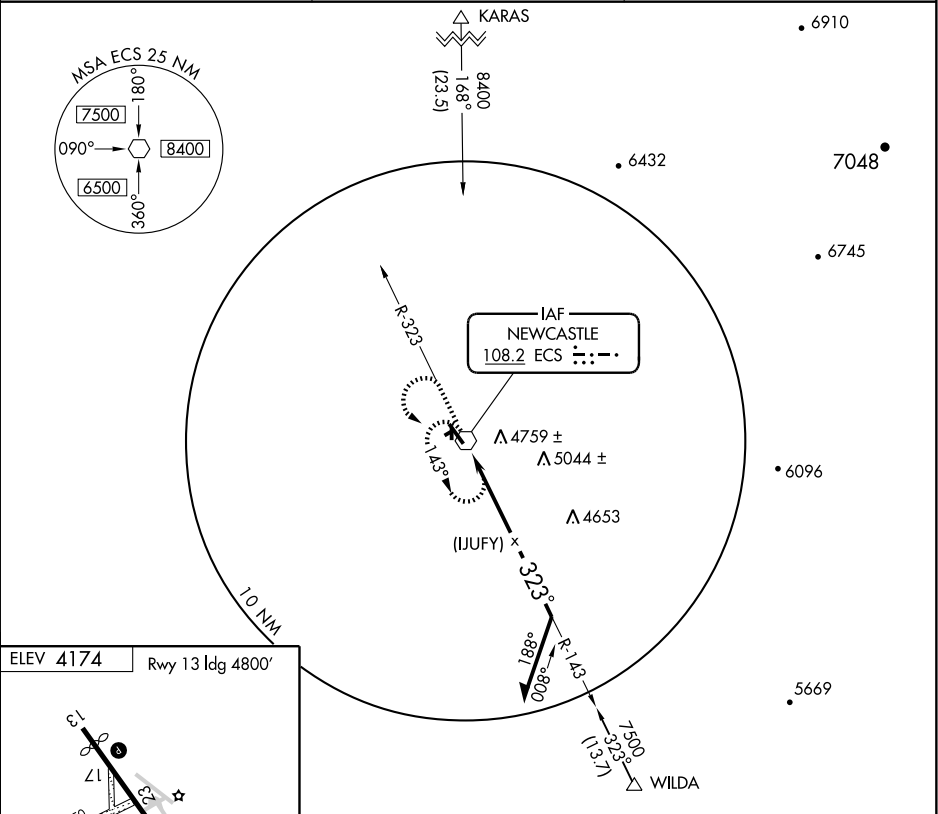
NEWCASTLE/MONDELL FIELD (ECS)

⚠ Circling east of Rwy 13-31 not authorized. Obtain local altimeter setting on CTAF when not received procedure not authorized.

⚠ **ODALS**

MISSED APPROACH: Climb to 5500 via ECS VOR R-323, then climbing left turn to 7500 direct ECS VOR and hold.

AWOS-3 118.0	DENVER CENTER 127.95 338.2	UNICOM 122.8 (CTAF) 0
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ELEV 4174 Rwy 13 Idg 4800'

REIL Rwy 13 0 MRL Rwy 13-31 0

323° to VOR

2220 X 50 0.7 % UP

2666 X 40 0.8 % UP

5300 X 75

35

TDZE 4174

Knots 60 90 120 150 180

Min:Sec

<div>5500 ↑ ESC R-323</div>		<div>7500 ↖</div>	<div>ESC 108.2</div>	<div><div><div>VOR</div><div>(IJUFY)</div><div>143°</div><div>323°</div><div>6500</div><div>4 NM</div></div><div>Remain within 10 NM</div></div>			
CATEGORY	A	B	C	D			
S-31	5060-1¼	886 (900-1¼)	5060-2¾ 886 (900-2¾)	5060-3 886 (900-3)			
CIRCLING	5060-1¼	886 (900-1¼)	5060-2¾ 886 (900-2¾)	5060-3 886 (900-3)			

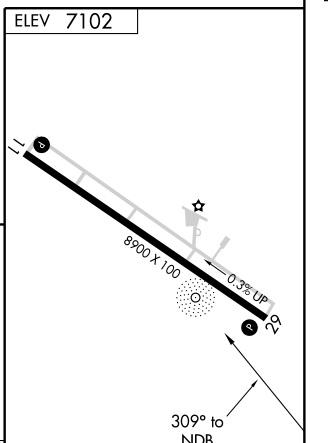
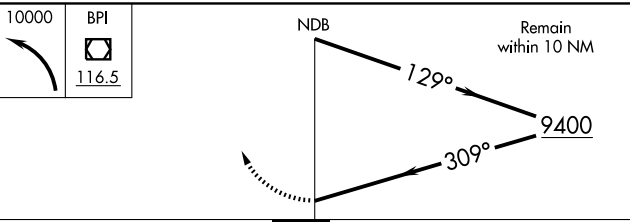
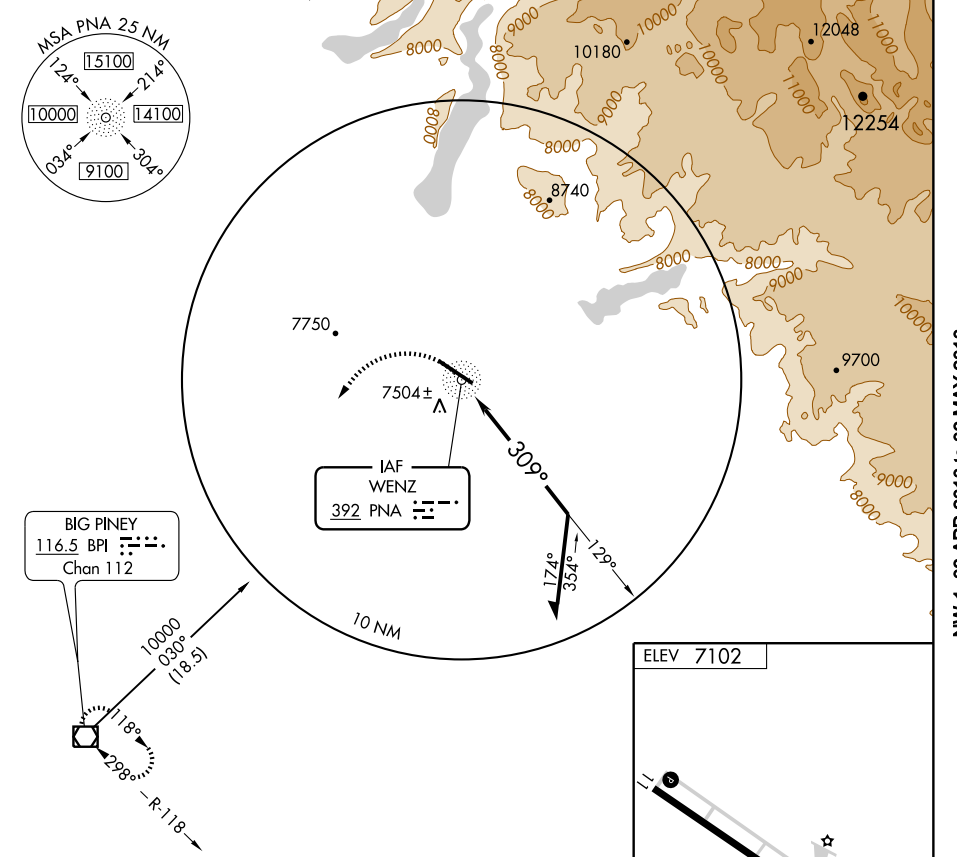
▼

▲

Procedure NA at night. When local altimeter setting not received, use MIRA Memorial Field altimeter setting and increase all MDA 60 feet and visibility Cat C/D ¼ mile.

MISSED APPROACH: Climbing left turn to 10000 direct BPI VOR/DME and hold.

AWOS-3 118.325	SALT LAKE CENTER 128.35 239.25	UNICOM 122.8 (CTAF) 0
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CATEGORY	A	B	C	D
CIRCLING	7900-1 798 (800-1)	7900-1¼ 798 (800-1¼)	7900-2¼ 798 (800-2¼)	7900-2½ 798 (800-2½)

REIL Rwy 11 and 29 0

MIRL Rwy 11-29 0

NW-1. 08 APR 2010 to 06 MAY 2010

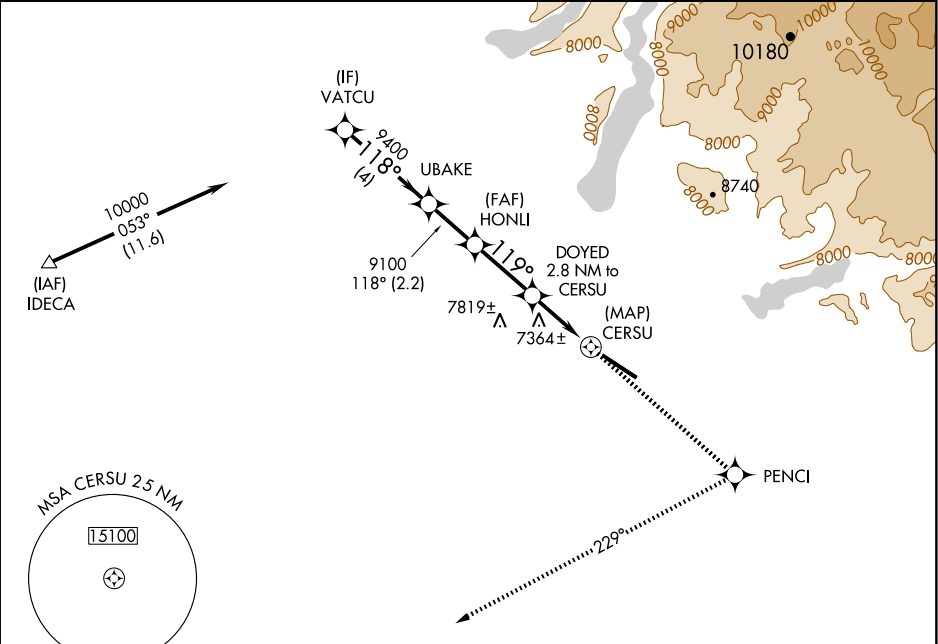
T

A

Circling NA at night. DME/DME RNP- 0.3 NA. VDP NA when using Miley Memorial Field altimeter setting. When local altimeter setting not received, use Miley Memorial Field altimeter setting and increase all MDA 60 feet and circling Cats B/C/D visibility ¼ mile.

MISSED APPROACH: Climb to 10000 direct PENCE and right turn via track 229° to BPI VOR/DME and hold.

AWOS-3 118.325	SALT LAKE CENTER 128.35 239.25	UNICOM 122.8 (CTAF) 1
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ELEV 7102				
<div><div>10000</div><div>PENCE</div><div>BPI</div></div> <div><div>Procedure Turn NA</div><div>10000</div><div>9400</div><div>9100</div><div>8200</div><div>DOYED 2.8 NM to CERSU</div><div>1 NM to CERSU</div><div>CERSU</div><div>0.5</div></div> <div><div>4 NM</div><div>2.2 NM</div><div>2.7 NM</div><div>1.8 NM</div><div>1 NM</div><div>0.5</div></div>				
CATEGORY	A	B	C	D
LNAV MDA	7620-1	518 (600-1)	7620-1½ 518 (600-1½)	7620-1¾ 518 (600-1¾)
CIRCLING	7760-1 658 (700-1)	7820-1 718 (800-1)	7840-2 738 (800-2)	7860-2½ 758 (800-2½)
REIL Rwy 11 and 29 1 MIRL Rwy 11-29 1				

APP CRS	Rwy Idg	8900
291°	TDZE	7081
	Apt Elev	7102

RNAV (GPS) RWY 29

PINEDALE/ RALPH WENZ FIELD (PNA)

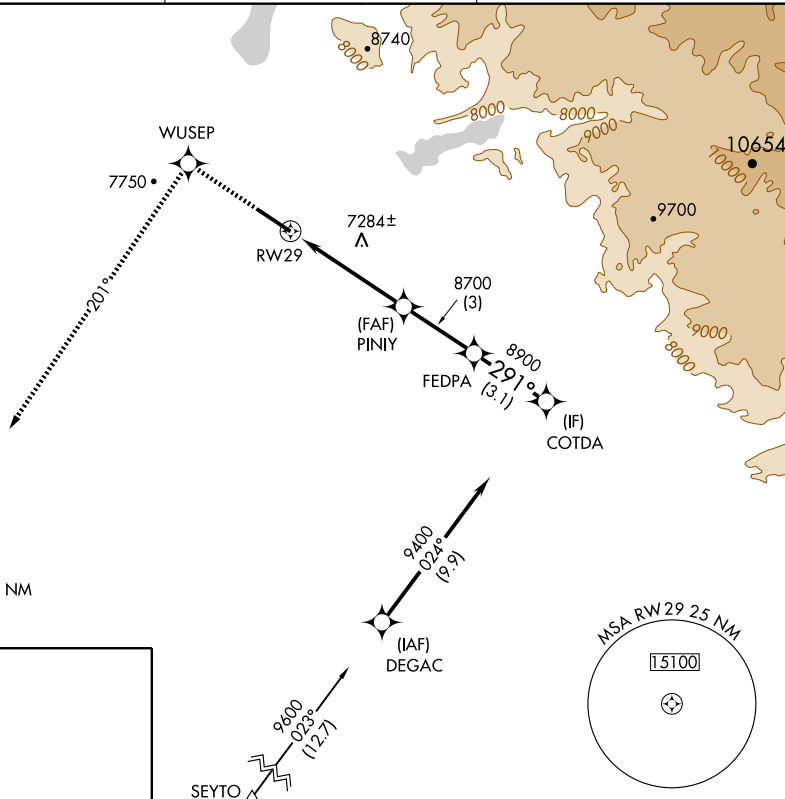
- T** DME/DME RNP-0.3 NA. Procedure NA at night. VDP NA when using Miley Memorial Field altimeter setting. When local altimeter setting not received, use Miley Memorial Field altimeter setting and increase all MDA 60 feet and circling Cats B/C/D visibility ¼ mile.

MISSED APPROACH: Climb to 10000
direct WUSEP and via track 201° to
BPI VOR/DME and hold.

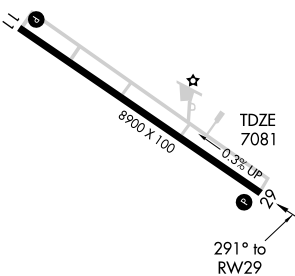
AWOS-3
118.325



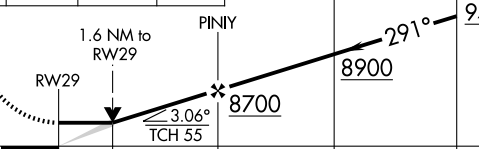
SALT LAKE CENTER
128.35 239.25

UNICOM
122.8 (CTAF) **L**



ELEV 7102



10000 ↑	WUSEP 	trk 201°	BPI 	VGSI and descent angles not coincident.			
				FEDPA	COTDA		
				Procedure Turn NA			
CATEGORY	A		B		C		D
LNAV MDA	7600-1 519 (500-1)				7600-1½ 519 (500-1½)		7600-1¾ 519 (500-1¾)
CIRCLING	7760-1 658 (700-1)	7820-1 718 (800-1)	7840-2 738 (800-2)		7860-2 758 (800-2½)		

NW-1. 08 APR 2010 to 06 MAY 2010

REIL Rwy 11 and 29 **L**MIRL Rwy 11-29 **L**

WAAS CH 93716 W22A	APP CRS 221°	Rwy Idg TDZE Apt Elev 7008 6813 6813
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RNAV (GPS) RWY 22

RAWLINS MUNI/HARVEY FIELD (RWL)

⚠ Circling NA NW of Rwy 4-22.
⚠ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -28°C (-18°F) or above 35°C (95°F).
DME/DME RNP-0.3 NA. Procedure NA at night.
Visibility reduction by helicopters NA.
When local altimeter setting not received, procedure NA.

MISSED APPROACH: Climb to 11700 direct EFWOV and via track 254° to CKW VOR/DME and hold, continue climb-in-hold to 11700.

ASOS
118.525

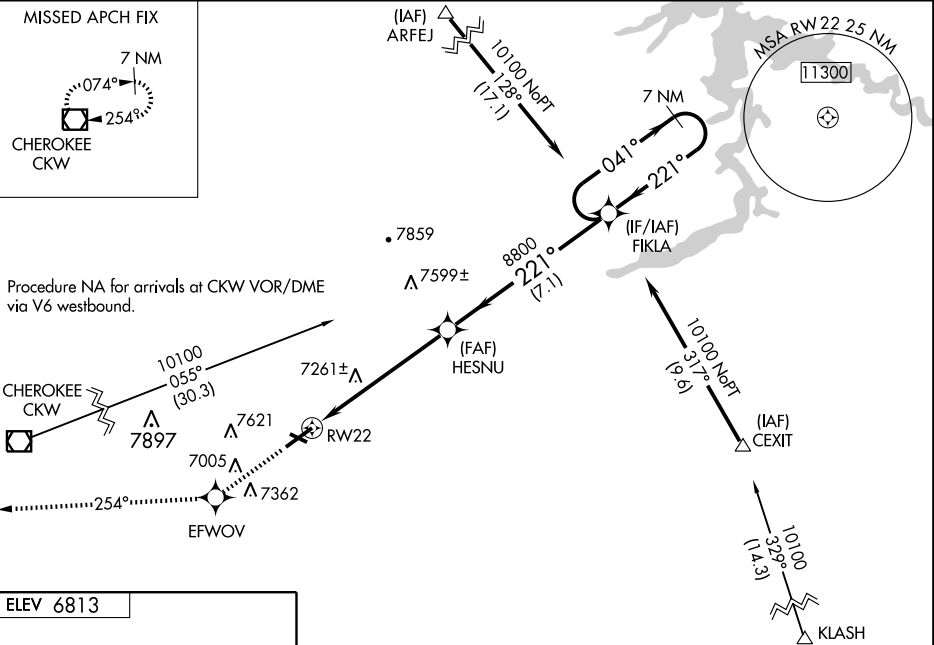
DENVER CENTER
132.1 254.35

UNICOM
123.0 (CTAF) 0

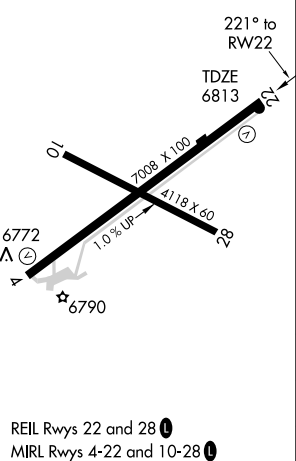
MISSED APCH FIX



Procedure NA for arrivals at CKW VOR/DME via V6 westbound.



ELEV 6813



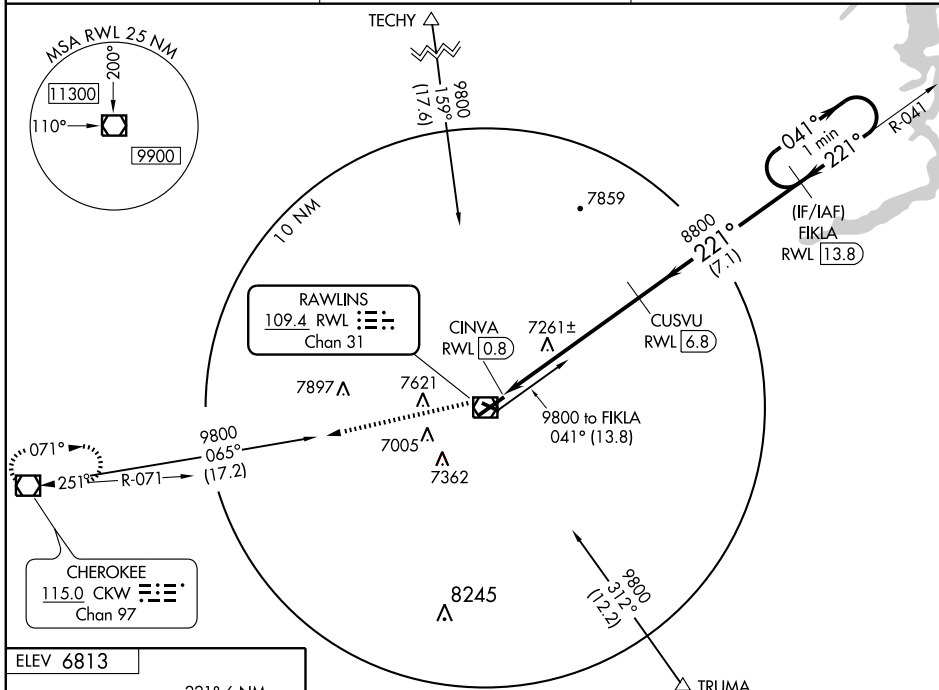
11700	EFWOV	trk 254°	CKW	FIKLA	7 NM Holding Pattern
↑	✧	✧	◻		
VGSI and RNAV glidepath not coincident					
RW22 8800 221° 10100 041° 221° GS 3.00° TCH 53					
CATEGORY	A	B	C	D	
LPV DA	7143-1¼ 330 (400-1¼)				
LNAV/VNAV DA	7711-4 898 (900-4)				
LNAV MDA	7660-1 847 (900-1)	7660-1¼ 847 (900-1¼)	7660-2½ 847 (900-2½)	7660-2¾ 847 (900-2¾)	
CIRCLING	7660-1 847 (900-1)	7660-1¼ 847 (900-1¼)	7660-2½ 847 (900-2½)	7680-2¾ 867 (900-2¾)	

REIL Rwy 22 and 28 0
MIRL Rwy 4-22 and 10-28 0

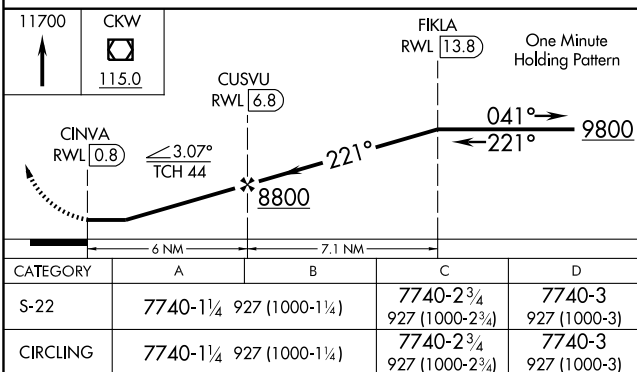
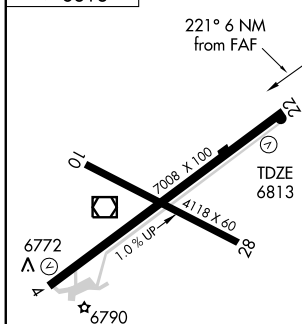
VOR/DME RWY 22
RAWLINS MUNI/HARVEY FIELD (RWL)

MISSED APPROACH: Climb to 11700 direct CKW VOR/DME and hold, continue climb-in-hold to 11700.

UNICOM
123.0 (CTAF) **L**



ELEV 6813



REIL Rwys 22 and 28 **L**
MIRL Rwys 4-22 and 10-28 **L**

NW-1. 08 APR 2010 to 06 MAY 2010


LOC I-RIW	APP CRS	Rwy Idg	8203
110.5	283°	TDZE	5456
		Apt Elev	5528

ILS or LOC RWY 28
RIVERTON RGNL (RIW)

⚠ When local altimeter setting not received, use Lander altimeter setting and increase all DA 53 feet, all MDA 60 feet, and S-LOC Cat D visibility ¼ mile.

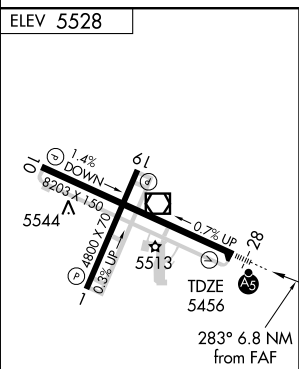
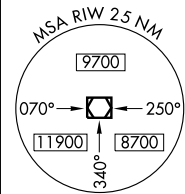
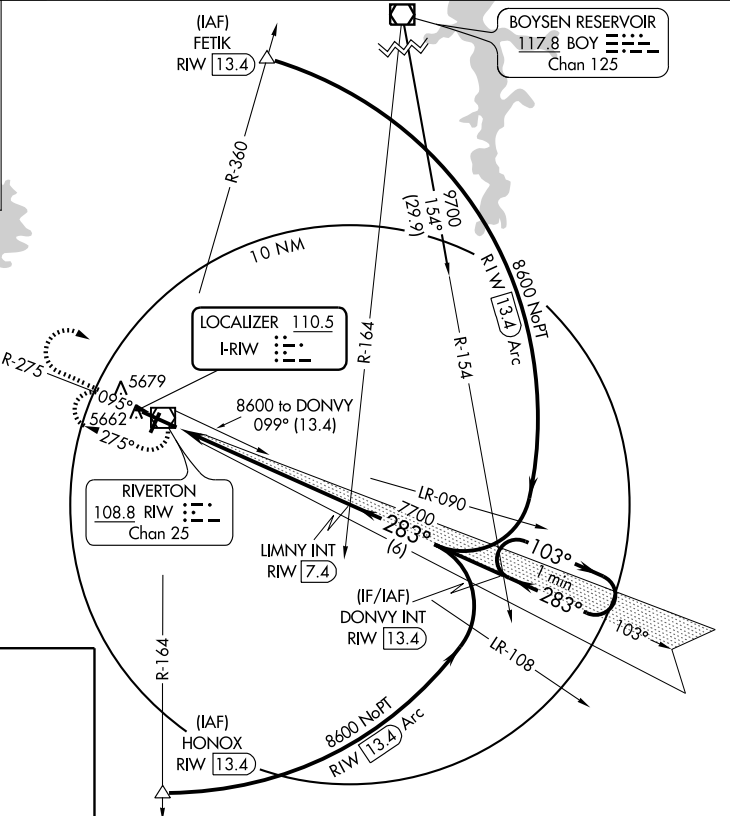
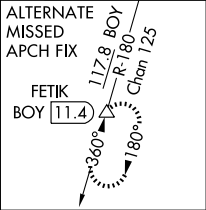
⚠ For inoperative MALSRR when, using Lander altimeter setting, increase S-ILS all Cats visibility to 1 mile.

MALSRR





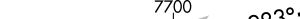
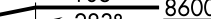

MISSED APPROACH: Climb to 6800 then climbing right turn to 7700 direct RIW VOR/DME and hold.

ASOS 121.425	SALT LAKE CENTER 133.25 285.6	UNICOM 122.8 (CTAF) 0
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REIL Rwy 1, 10 and 19 **0**
MIRL Rwy 1-19 **0**
HIRL Rwy 10-28 **0**

FAF to MAP 6.8 NM					
Knots	60	90	120	150	180
Min:Sec	6:48	4:32	3:24	2:43	2:16

6800 ↑		7700 ↗		RIW  108.8		LIMNY INT RIW 7.4		DONVY INT RIW 13.4		One Minute Holding Pattern	
						7700		283°		103° → ← 283° 8600	
		6.8 NM		6 NM						GS 3.00° TCH 50	
CATEGORY	A		B		C		D				
S-ILS 28			5656-½		200 (200-½)						
S-LOC 28	5880-½		424 (400-½)		5880-¾		424 (400-¾)				
CIRCLING	5980-1		452 (500-1)		5980-1½		452 (500-1½)		6080-2		552 (600-2)

WAAS CH 42899 W10A	APP CRS 103°	Rwy Idg 8203 TDZE 5528 Apt Elev 5528
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RNAV (GPS) RWY 10
RIVERTON RGNL (RIW)

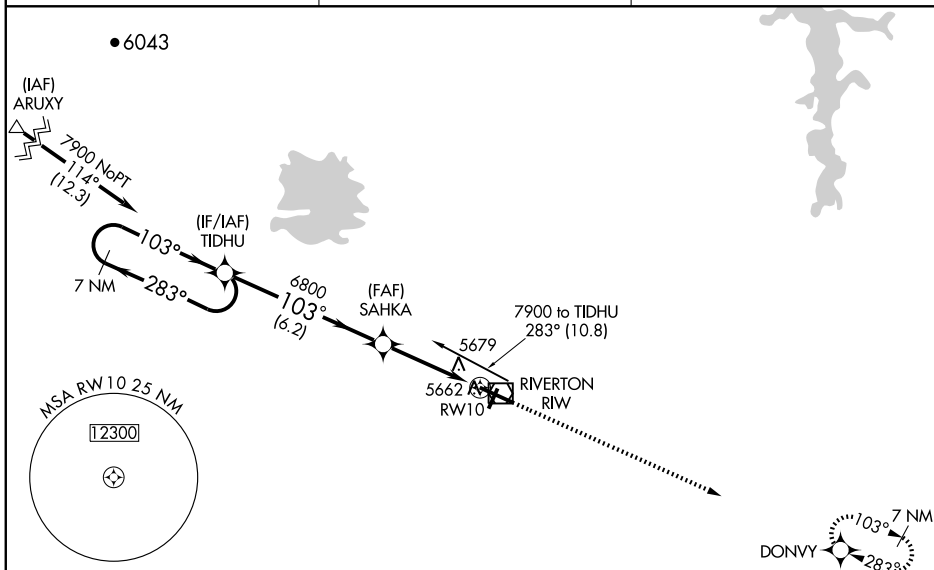
▼ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -26°C (-14°F) or above 37°C (98°F).
▲ DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. When local altimeter setting not received, use Lander altimeter setting and increase all DA 53 feet and all MDA 60 feet, and increase LPV and LNAV-VNAV all Cats and LNAV Cat D visibility ¼ mile. Baro-VNAV and VDP NA when using Lander altimeter setting.

MISSED APPROACH: Climb to 8600 direct DONVY and hold.

ASOS
121.425

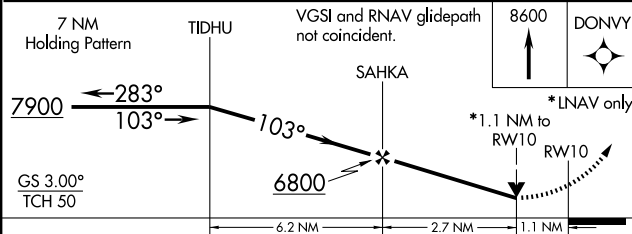
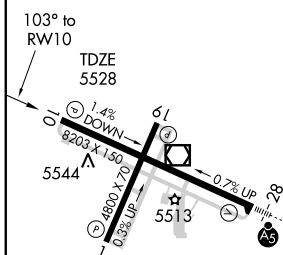
SALT LAKE CENTER
133.25 285.6

UNICOM
122.8 (CTAF) **L**



NW-1. 08 APR 2010 to 06 MAY 2010

ELEV 5528



CATEGORY	A	B	C	D
LPV DA	5919-1¼ 391 (400-1¼)			
RNAV/ VNAV DA	5976-1½ 448 (500-1½)			
RNAV MDA	5940-1	412 (500-1)	5940-1¼	412 (500-1¼)
CIRCLING	5980-1	452 (500-1)	5980-1½ 452 (500-1½)	6080-2 552 (600-2)

REIL Rwy 1, 10 and 19 **L**
MIRL Rwy 1-19 **L**
HIRL Rwy 10-28 **L**

WAAS CH 61115 W28A	APP CRS 283°	Rwy Idg TDZE Apt Elev	8203 5456 5528
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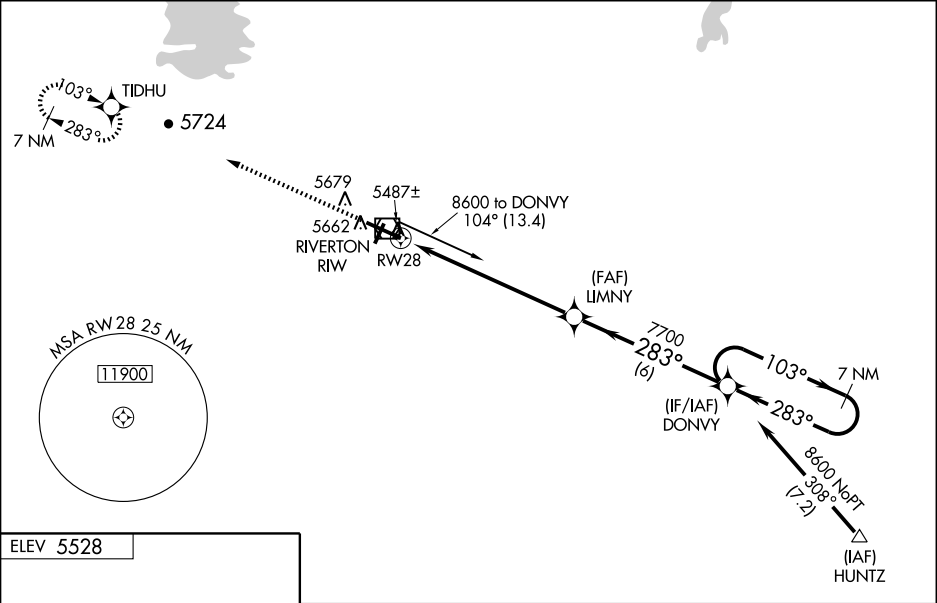
RNAV (GPS) RWY 28
RIVERTON RGNL (RIW)

▼ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -26°C (-14°F) or above 38°C (100°F).
▲ Inoperative table does not apply to LNAV Cat D. DME/DME RNP-0.3 NA. Baro-VNAV and VDP NA when using Lander altimeter setting.
For inoperative MALSR, increase LNAV-VNAV Cat D visibility ¼ mile. When local altimeter setting not received, use Lander altimeter setting and increase all DA 53 feet and all MDA 60 feet.
For inoperative MALSR when using Lander altimeter setting, increase LPV all Cats ½ mile, and LNAV/VNAV and LNAV Cat D visibility ¼ mile.

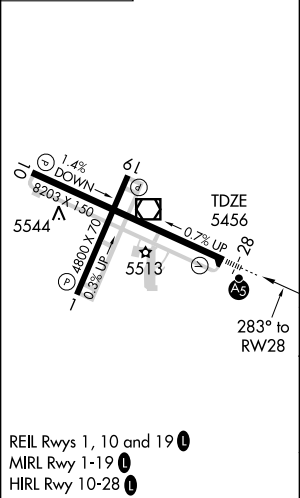
MALSR

MISSED APPROACH: Climb to 7900 direct TIDHU and hold.

ASOS 121.425	SALT LAKE CENTER 133.25 285.6	UNICOM 122.8 (CTAF) 1
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ELEV 5528



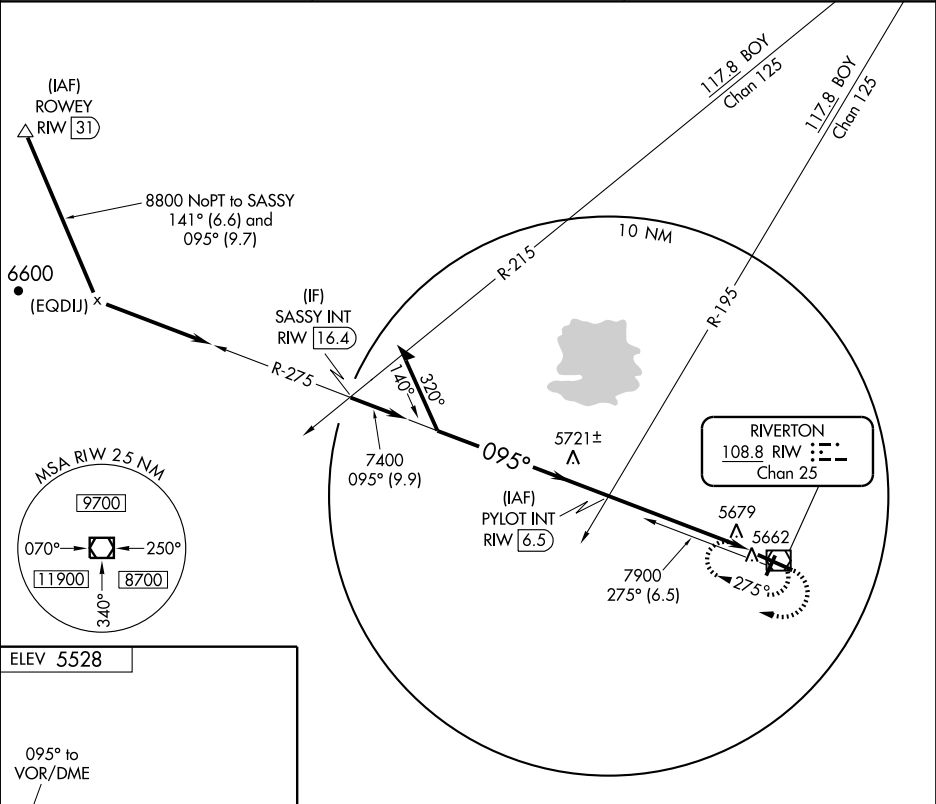
7900	TIDHU	7 NM Holding Pattern			
*LNAV only		LIMNY	DONVY	8600	
RW28		283°	103°	283°	
0.9		5.9 NM	6 NM	GS 3.00° TCH 50	
CATEGORY	A	B	C	D	
LPV DA	5656-½ 200 (200-½)				
LNAV/VNAV DA	5706-½ 250 (200-½)			5706-¾ 250 (200-¾)	
LNAV MDA	5780-½ 324 (300-½)			5780-1 324 (300-1)	
CIRCLING	5980-1	452 (500-1)	5980-1½ 452 (500-1½)	6080-2 552 (600-2)	

VOR/DME RIW 108.8 Chan 25	APP CRS 095°	Rwy Idg TDZE Apt Elev	8203 5528 5528
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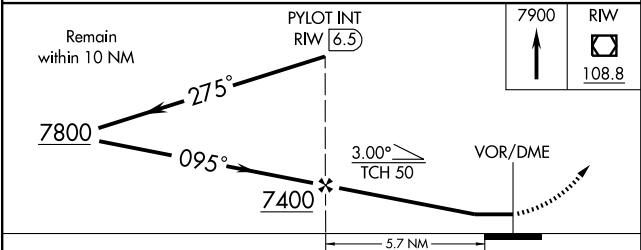
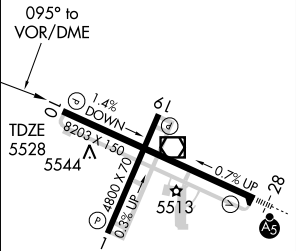
VOR RWY 10
RIVERTON RGNL (RIW)

<p>▼ Visibility reduction by helicopters NA.</p> <p>▲ When local altimeter setting not received, use Lander altimeter setting and increase all MDA 60 feet and increase S-10 Cat D visibility ¼ mile.</p>	MISSED APPROACH: Climb to 7900 in RIW VOR/DME holding pattern.
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ASOS 121.425	SALT LAKE CENTER 133.25 285.6	UNICOM 122.8 (CTAF) 0
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ELEV 5528



REIL Rwy 1, 10 and 19
MIRL Rwy 1-19
HIRL Rwy 10-28

CATEGORY	A	B	C	D
S-10	5940-1	412 (500-1)	5940-1½	412 (500-1½)
CIRCLING	5980-1	452 (500-1)	5980-1½	6080-2 452 (500-1½) 552 (600-2)

VOR/DME RIW 108.8 Chan 25	APP CRS 287°	Rwy Idg TDZE Apt Elev	8203 5456 5528
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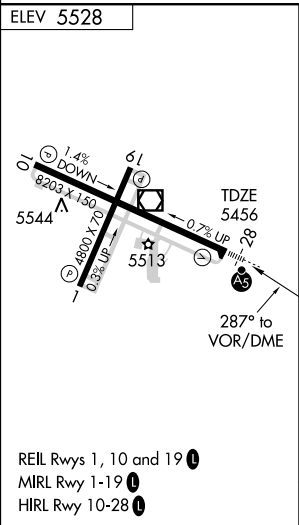
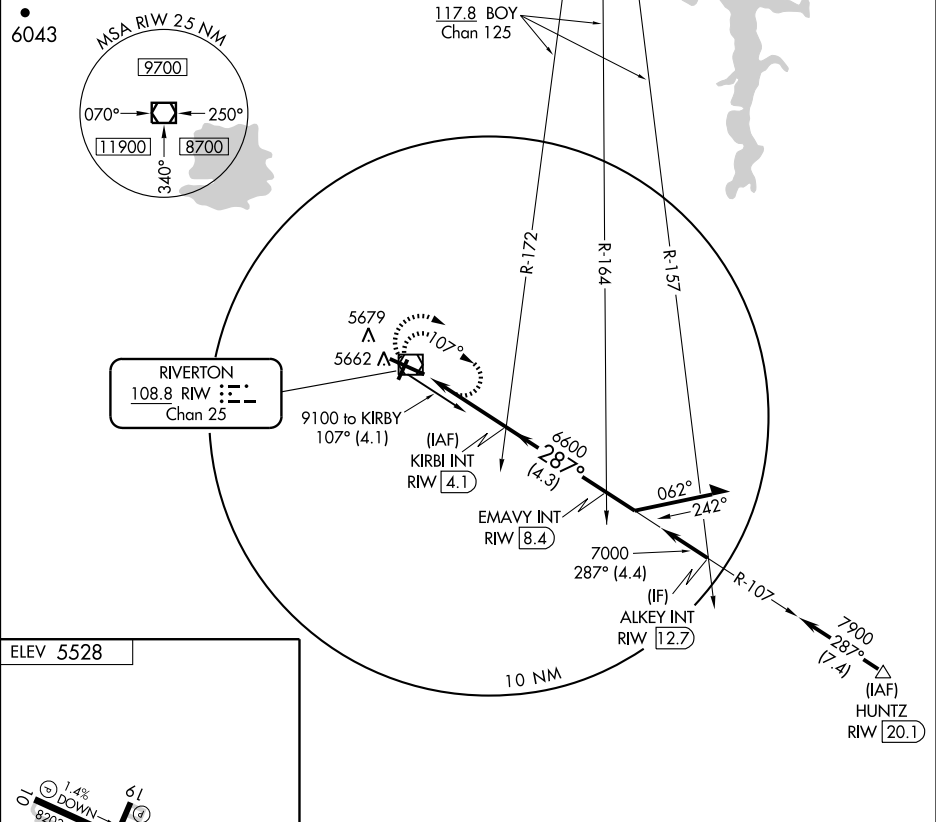
VOR RWY 28
RIVERTON RGNL (RIW)

When local altimeter setting not received, use Lander altimeter setting and increase all MDA 60 feet and S-28 Cats C and D visibility ¼ mile. VDP NA when using Lander altimeter setting.



MISSED APPROACH: Climb to 7700 in RIW VOR/DME holding pattern.

ASOS 121.425	SALT LAKE CENTER 133.25 285.6	UNICOM 122.8 (CTAF) 0
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	7700	RIW 108.8	KIRBY INT RIW 4.1	Remain within 10 NM
			RIW 2	
		VOR/DME	2.98° TCH 52	
			6600	
			1.4 NM	2.1 NM
CATEGORY	A	B	C	D
S-28	5940-½ 484 (500-½)		5940-¾ 484 (500-¾)	5940-1 484 (500-1)
CIRCLING	5980-1 452 (500-1)		5980-1½ 452 (500-1½)	6080-2 552 (600-2)

LOC/DME I-RKS 109.3 Chan 30	APP CRS 270°	Rwy Idg 10000 TDZE 6764 Apt Elev 6764
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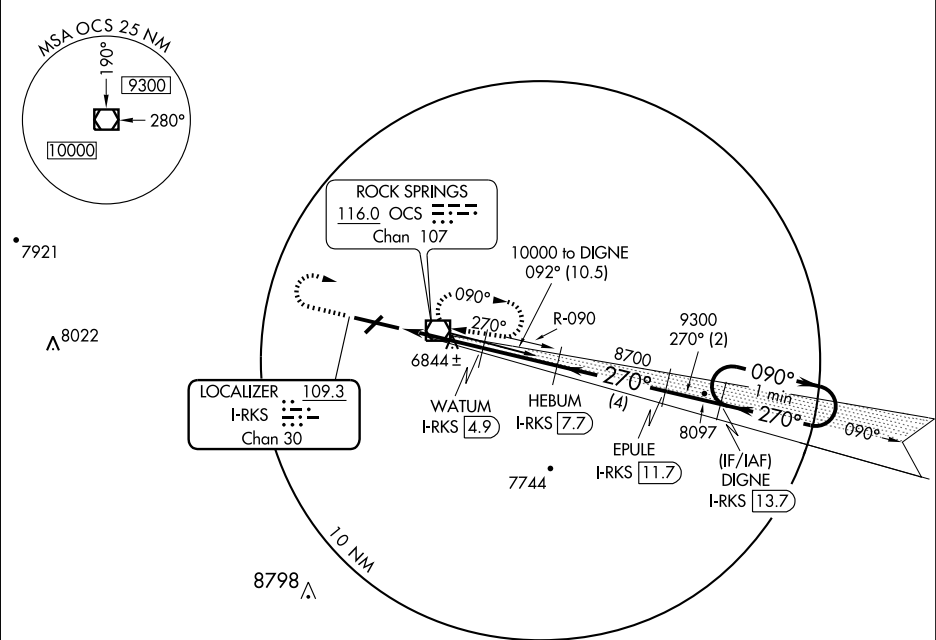
ILS or LOC/DME RWY 27
ROCK SPRINGS-SWEETWATER COUNTY (RKS)

For inoperative MALS, increase S-LOC 27 Cat. D visibility to 1 mile. Autopilot coupled approach NA below 7000. Glideslope unusable beyond 5 degrees left of course.

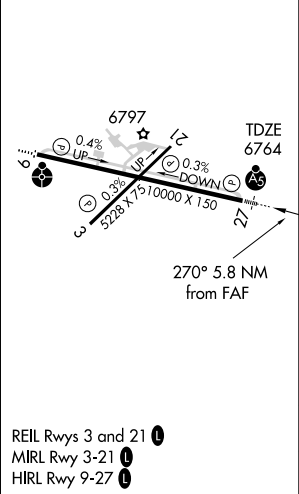


MISSED APPROACH: Climb to 7600, then climbing right turn to 9300 direct OCS VOR/DME and hold, continue climb-in-hold to 9300.

ASOS 118.375	CASPER RADIO 122.6	UNICOM 122.8 (CTAF) 0
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ELEV 6764



7600 ↑	9300 ↗	OCS □ 116.0	Use I-RKS DME when on localizer course.				
* LOC only			HEBUM I-RKS 7.7	EPULE I-RKS 11.7	DIGNE I-RKS 13.7	One Minute Holding Pattern	
			WATUM I-RKS 4.9	8700	090° → 9300 ← 270°		
			I-RKS 1.8	I-RKS 2.7	7800*	8700	GS 3.00° TCH 49
0.9			2.2 NM	2.7 NM	4 NM	2 NM	
CATEGORY	A		B		C		D
S-ILS-27	6964-½ 200 (200-½)						
S-LOC 27	7100-½ 336 (400-½)					7100-¾ 336 (400-¾)	
CIRCLING	7140-1 376 (400-1)	7220-1 456 (500-1)	7220-1½ 456 (500-1½)	7320-2 556 (600-2)			

WAAS CH 66016 W09A	APP CRS 090°	Rwy Idg TDZE Apt Elev	10000 6741 6764
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RNAV (GPS) RWY 9

ROCK SPRINGS-SWEETWATER COUNTY (RKS)

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -28°C (-18°C) or above 35°C (95°F). DME/DME RNP-0.3 NA.

ODALS



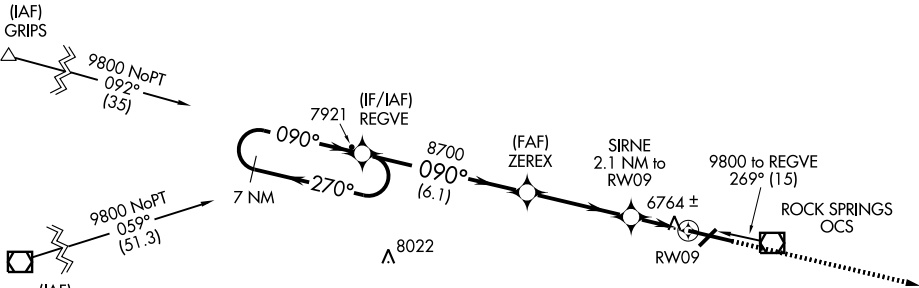
MISSED APPROACH: Climb to 9600 direct DIGNE and hold.

ASOS
118.375

CASPER RADIO
122.6

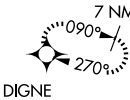
UNICOM
122.8 (CTAF)

8003



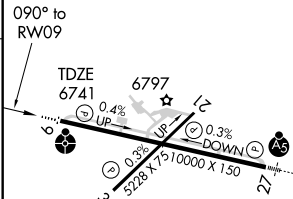
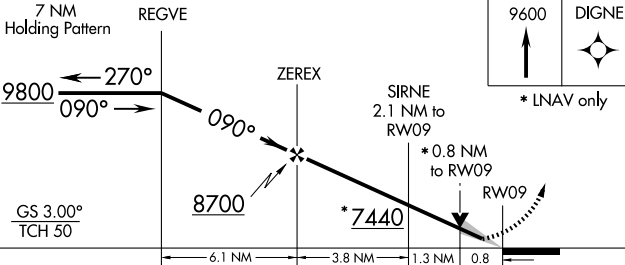
Procedure NA for arrivals at OCS VOR/DME on V328 southeast bound.

MISSED APCH FIX



8798

ELEV 6764



CATEGORY	A	B	C	D
LPV DA	6941-3/4 200 (200-3/4)			
LNAV/VNAV DA	7034-3/4 293 (300-3/4)			7034-1 293 (300-1)
LNAV MDA	7040-3/4 299 (300-3/4)			7040-1 299 (300-1)
CIRCLING	7140-1 376 (400-1)	7220-1 456 (500-1)	7220-1 1/2 456 (500-1 1/2)	7320-2 556 (600-2)

REIL Rwy 3 and 21

MIRL Rwy 3-21

HIRL Rwy 9-27

Rwy Idg	10000
TDZE	6764
Apt Elev	6764

ROCK SPRINGS-SWEETWATER COUNTY (RKS)

T For inoperative MALSR, increase LNAV/VNAV Cat. D visibility to 1 mile. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -28°C (-18°F) or above 35° C (95°F). Inoperative table does not apply to LNAV Cat. D. DME/DME RNP-0.3 NA.

MALSR

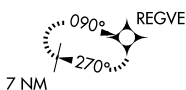
MISSED APPROACH: Climb to 9800
direct REGVE and hold.

ASOS
118.375

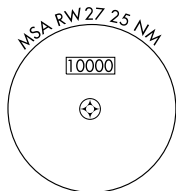
CASPER RADIO
122.6

UNICOM
122.8 (CTAF) **L**

MISSED APCH FIX

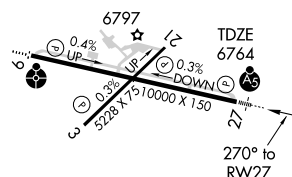




8022

8798 Δ

ELEV 6764

Procedure NA for arrivals at OCS
VOR/DME on V235 southwest bound.



9800	REGVE
	

* LNAV only

RW27

HEBUM

1

EPUL

	1980	1985	1990	1995	2000	2005	2010	2015	2020
Population	76.5	80.5	84.5	88.5	92.5	96.5	100.0	103.5	107.0
GDP per capita	1,000	1,200	1,400	1,600	1,800	2,000	2,200	2,400	2,600
Life expectancy at birth	65	68	71	74	77	80	83	86	89
Urban population (%)	35	40	45	50	55	60	65	70	75
Employment rate (%)	55	58	61	64	67	70	73	76	79
Unemployment rate (%)	15	12	10	8	7	6	5	4	3
Government expenditure as % of GDP	15	18	21	24	27	30	33	36	39
Private consumption as % of GDP	55	58	61	64	67	70	73	76	79
Investment as % of GDP	10	12	14	16	18	20	22	24	26
Exports as % of GDP	10	12	14	16	18	20	22	24	26
Imports as % of GDP	10	12	14	16	18	20	22	24	26
Current account balance as % of GDP	-5	-4	-3	-2	-1	0	1	2	3
Foreign debt as % of GDP	10	12	14	16	18	20	22	24	26
Public debt as % of GDP	15	18	21	24	27	30	33	36	39
Private debt as % of GDP	10	12	14	16	18	20	22	24	26
Total debt as % of GDP	25	30	35	40	45	50	55	60	65
Government revenue as % of GDP	15	18	21	24	27	30	33	36	39
Private savings as % of GDP	10	12	14	16	18	20	22	24	26
Corporate savings as % of GDP	5	6	7	8	9	10	11	12	13
Household savings as % of GDP	5	6	7	8	9	10	11	12	13
Capital formation as % of GDP	10	12	14	16	18	20	22	24	26
Fixed capital formation as % of GDP	8	9	10	11	12	13	14	15	16
Consumption of fixed capital as % of GDP	2	3	4	5	6	7	8	9	10
Net capital formation as % of GDP	8	9	10	11	12	13	14	15	16
Government consumption as % of GDP	10	12	14	16	18	20	22	24	26
Private consumption as % of GDP	45	46	47	48	49	50	51	52	53
Investment as % of GDP	10	12	14	16	18	20	22	24	26
Exports as % of GDP	10	12	14	16	18	20	22	24	26
Imports as % of GDP	10	12	14	16	18	20	22	24	26
Current account balance as % of GDP	-5	-4	-3	-2	-1	0	1	2	3
Foreign debt as % of GDP	10	12	14	16	18	20	22	24	26
Public debt as % of GDP	15	18	21	24	27	30	33	36	39
Private debt as % of GDP	10	12	14	16	18	20	22	24	26
Total debt as % of GDP	25	30	35	40	45	50	55	60	65
Government revenue as % of GDP	15	18	21	24	27	30	33	36	39
Private savings as % of GDP	10	12	14	16	18	20	22	24	26
Corporate savings as % of GDP	5	6	7	8	9	10	11	12	13
Household savings as % of GDP	5	6	7	8	9	10	11	12	13
Capital formation as % of GDP	10	12	14	16	18	20	22	24	26
Fixed capital formation as % of GDP	8	9	10	11	12	13	14	15	16
Consumption of fixed capital as % of GDP	2	3	4	5	6	7	8	9	10
Net capital formation as % of GDP	8	9	10	11	12	13	14	15	16
Government consumption as % of GDP	10	12	14	16	18	20	22	24	26
Private consumption as % of GDP	45	46	47	48	49	50	51	52	53
Investment as % of GDP	10	12	14	16	18	20	22	24	26
Exports as % of GDP	10	12	14	16	18	20	22	24	26
Imports as % of GDP	10	12	14	16	18	20	22	24	26
Current account balance as % of GDP	-5	-4	-3	-2	-1	0	1	2	3
Foreign debt as % of GDP	10	12	14	16	18	20	22	24	26
Public debt as % of GDP	15	18	21	24	27	30	33	36	39
Private debt as % of GDP	10	12							

DIGNE

[illegible]

Holding Pattern

090° → 0300

GS 3.00°
TCH 49

CATEGORY	A	B	C	D
LPV DA	6964-1/2		200 (200-1/2)	
LNAV/DA	7035-1/2	271 (300-1/2)	7035-3/4 271 (300-3/4)	
LNAV MDA	7100-1/2 336 (400-1/2)			7100-1 336 (400-1)
CIRCLING	7140-1 376 (400-1)	7220-1 456 (500-1)	7220-1 1/2 456 (500-1 1/2)	7320-2 556 (600-2)

REIL Rwy 3 and 21 **L**MIRL Rwy 3-21 **L**HURL Rwy 9-27 **L**

VOR-B

ROCK SPRINGS-SWEETWATER COUNTY (RKS)

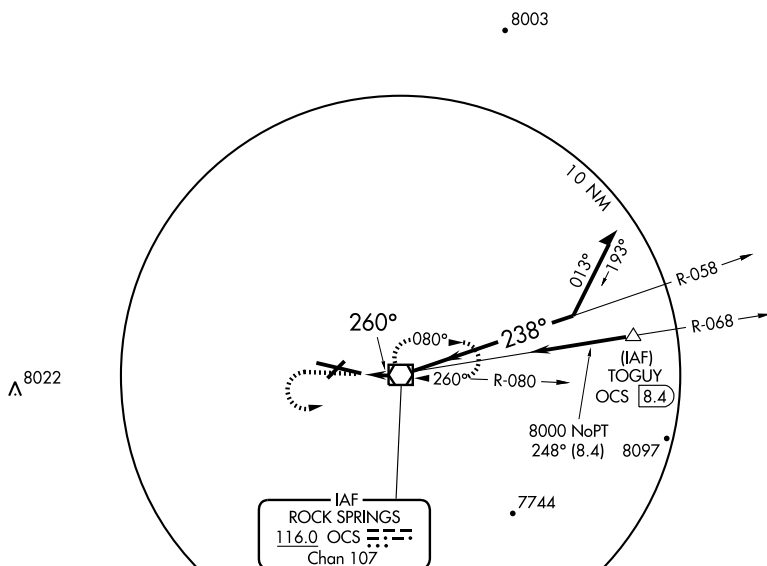
VOR/DME OCS 116.0 Chgn 107	APP CRS 260°	Rwy Idg N/A TDZE N/A Apt Elev 6760
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MISSED APPROACH: Climb to 7700, then climbing left turn to 9100 direct OCS VOR/DME and hold.

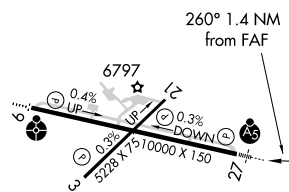
ASOS
118.375

CASPER RADIO
122.6

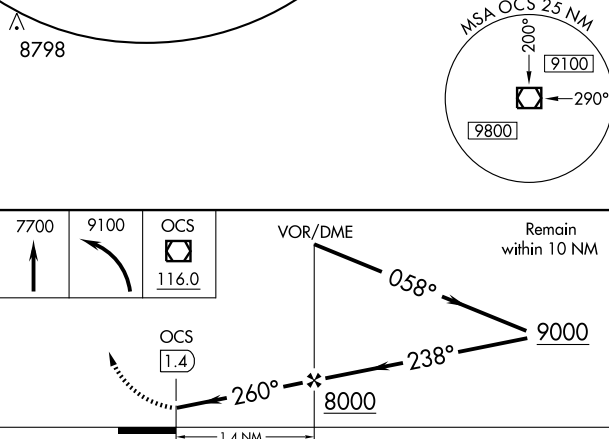
UNICOM
122.8 (CTAF) **L**

NW-1. 08 APR 2010 to 06 MAY 2010

ELEV 6760



REIL Rwy 3 and 21 **L**
MIRL Rwy 3-21 **L**
HIRL Rwy 9-27 **L**



FAF to MAP 1.4 NM

CATEGORY

A

E

C

D

Knots	60	90	120	150	180
Min:Sec	1:24	0:56	0:42	0:34	0:28

7440-1	680 (700-1)
--------	-------------

7440-2
680 (700-2)

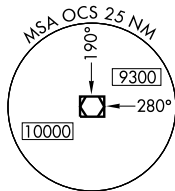
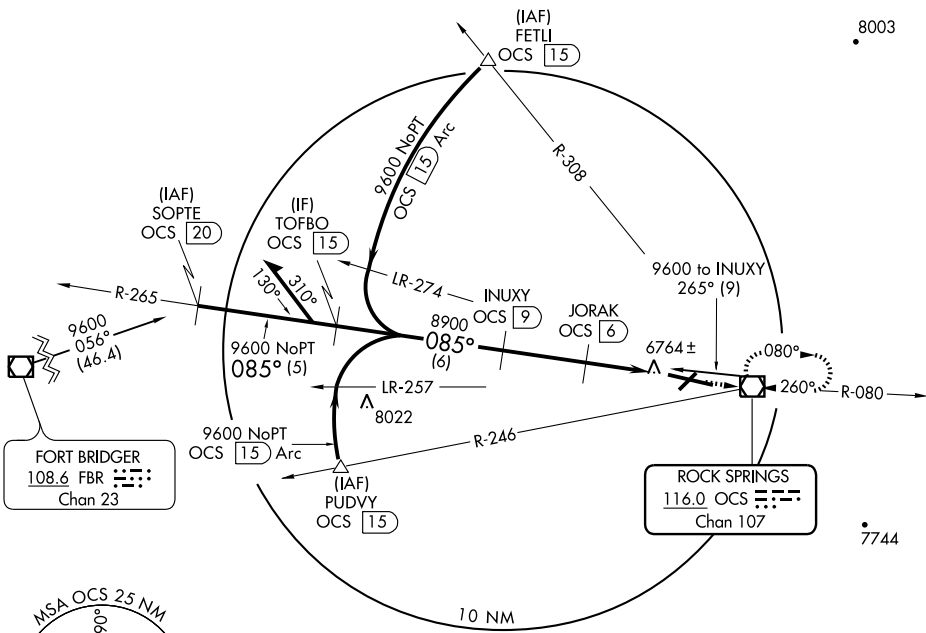
7440-2¼
680 (700-2¼)

VOR/DME RWY 9
ROCK SPRINGS-SWEETWATER COUNTY (RKS)

T

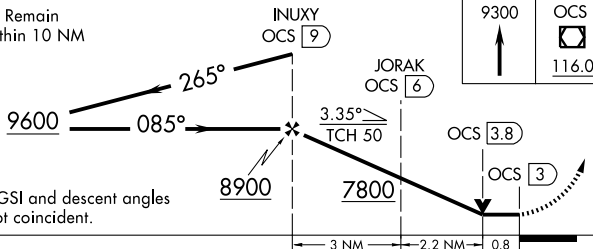


MISSED APPROACH: Climb to 9300 direct OCS
VOR/DME and hold, continue climb-in-hold to 9300.

UNICOM
122.8 (CTAF) **L**

NW-1. 08 APR 2010 to 06 MAY 2010

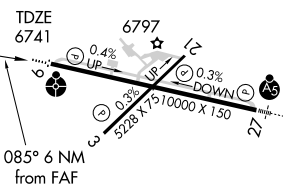
Remain
within 10 NM



VGSI and descent angles
not coincident.

CATEGORY	A	B	C	D
S-9	7020- $\frac{3}{4}$ 279 (300- $\frac{3}{4}$)			7020-1 279 (300-1)
CIRCLING	7140-1 376 (400-1)	7220-1 456 (500-1)	7220-1 $\frac{1}{2}$ 456 (500-1 $\frac{1}{2}$)	7320-2 556 (600-2)

ELEV 6764



REIL Rwy 3 and 21 **L**
MIRL Rwy 3-21 **L**
HIRL Rwy 9-27 **L**

VOR/DME OCS 116.0 Chan 107	APP CRS 255°	Rwy Idg 10000 TDZE 6760 Apt Elev 6760
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VOR/DME RWY 27
ROCK SPRINGS-SWEETWATER COUNTY (RKS)

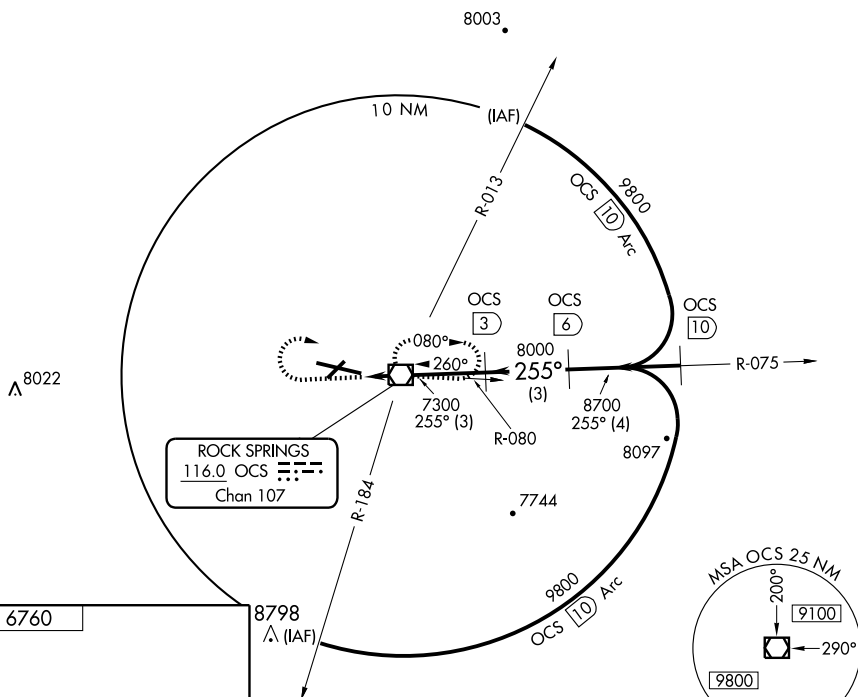
T Inoperative table does not apply to Cat. D.



MISSED APPROACH: Climb to 7700, then climbing right turn to 9100 direct OCS VOR/DME and hold.

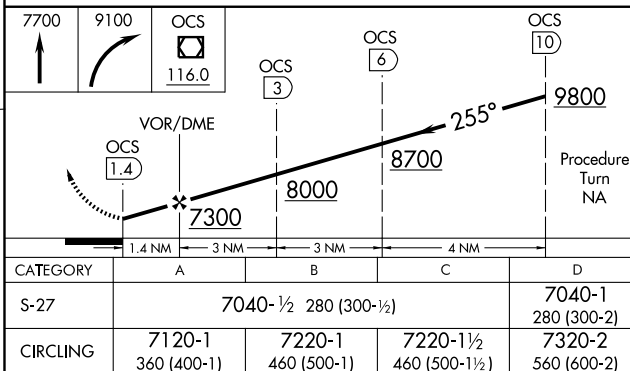
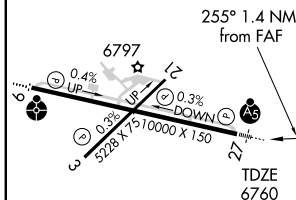
ASOS
118.375

CASPER RADIO
122.6

UNICOM
122.8 (CTAF) **L**

NW-1. 08 APR 2010 to 06 MAY 2010

ELEV 6760

REIL Rwys 3 and 21 **L**MIRL Rwy 3-21 **L**HIRL Rwy 9-27 **L**

NDB-A

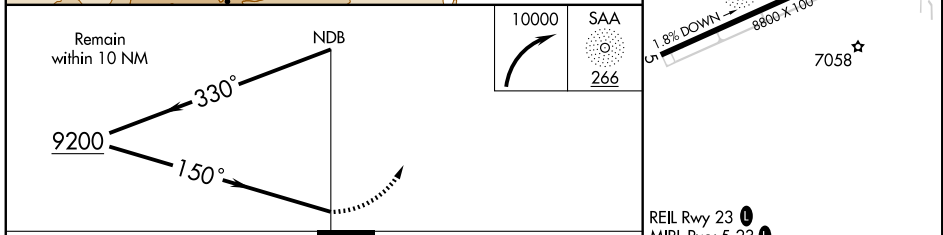
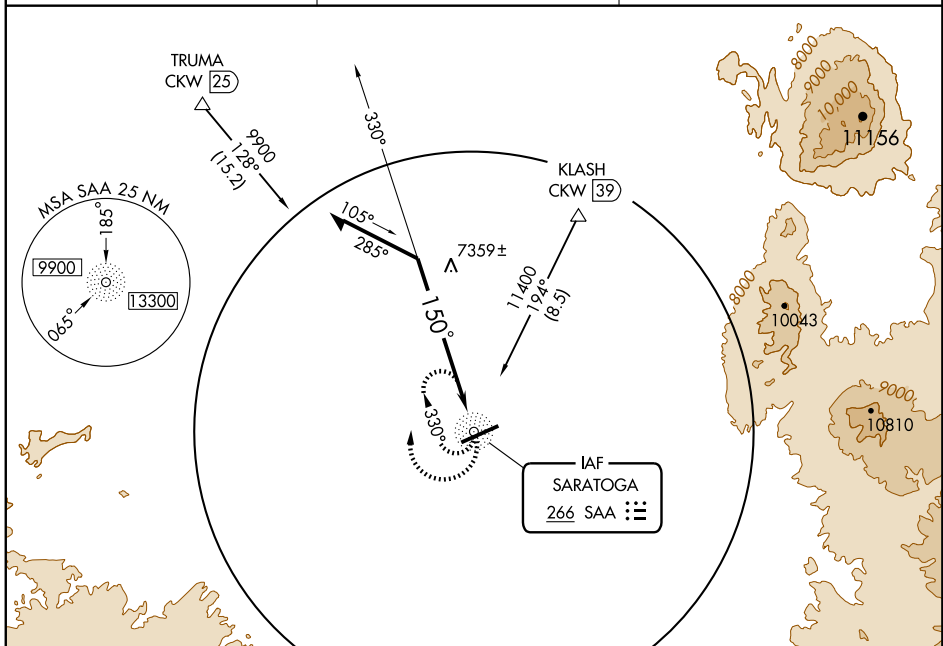
SARATOGA/ SHIVELY FIELD (SAA)

NDB SAA	APP CRS	Rwy Idg	N/A
<u>266</u>	150°	TDZE	N/A
		Apt Elev	7012

T If local altimeter setting not received, use Rawlins altimeter
ANA setting and increase all MDAs 280 feet.

MISSED APPROACH: Climbing right turn to 10,000 in SAA NDB holding pattern.

AWOS-3
118.175

DENVER CENTER
132.1 254.35UNICOM
122.8 (CTAF) 

					MIRL Rwy 3-23					
CATEGORY	A	B	C	D						
CIRCLING	7720-1¼	708 (800-1¼)	7720-2 708 (800-2)	7720-2¼ 708 (800-2 ¼)	Knots	60	90	120	150	180
					Min:Sec					

APP CRS	Rwy Idg	N/A
151°	TDZE	N/A
	Apt Elev	7012

RNAV (GPS)-B

SARATOGA/SHIVELY FIELD (SAA)

T DME/DME RNP -0.3 NA. If local altimeter setting not received, use Rawlins altimeter setting and increase all MDAs 280 feet.

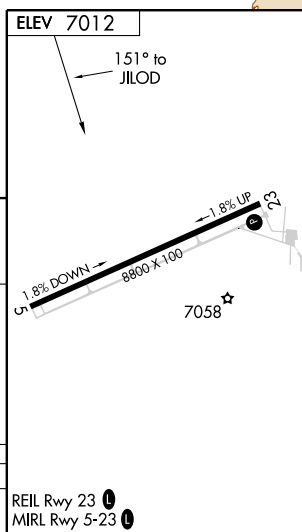
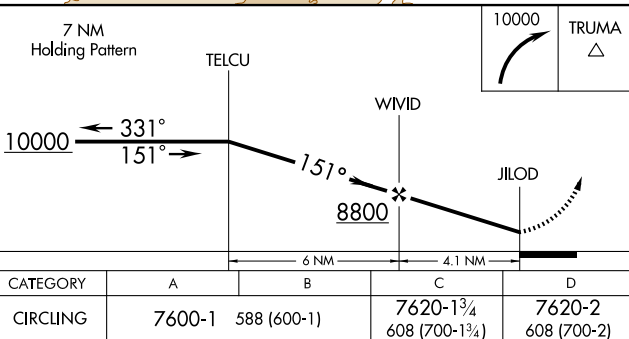
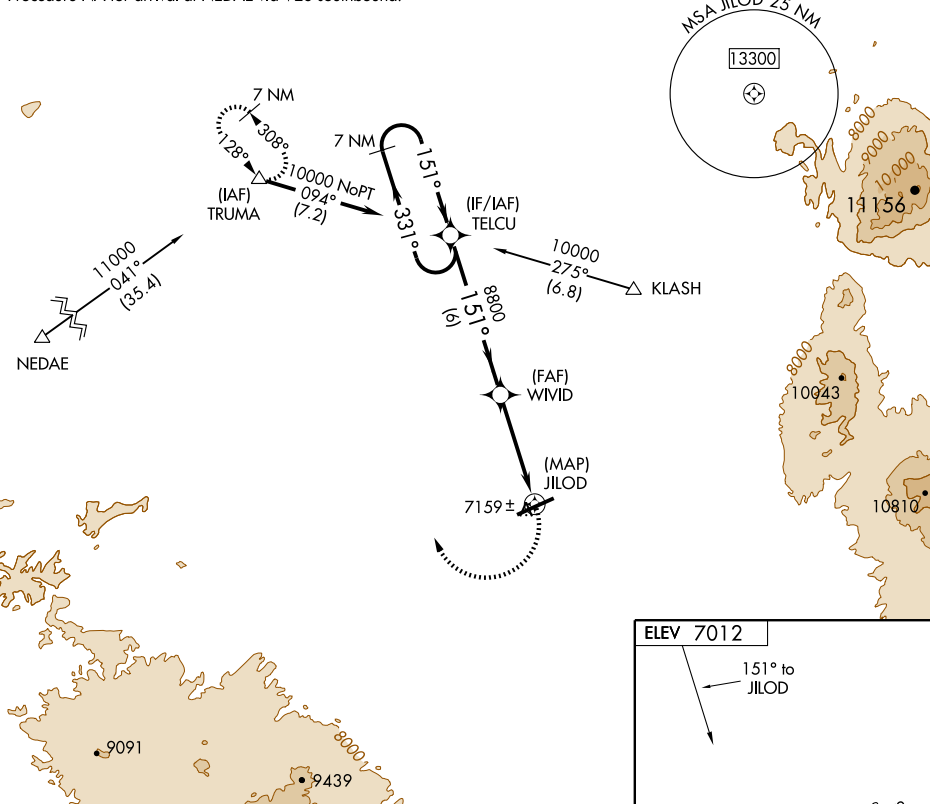
A NA

MISSED APPROACH: Climbing right turn to 10,000 direct TRUMA and hold.

AWOS-3
118.175

DENVER CENTER
132.1 254.35UNICOM
122.8 (CTAF) **L**

Procedure NA for arrival at NEDAE via V26 southbound.



LOC/DME I-SHR 108.7 Chan 24	APP CRS 323°	Rwy Idg 8300 TDZE 3985 Apt Elev 4021
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ILS or LOC/DME RWY 32

SHERIDAN COUNTY (SHR)

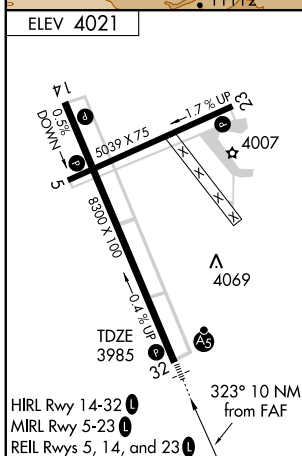
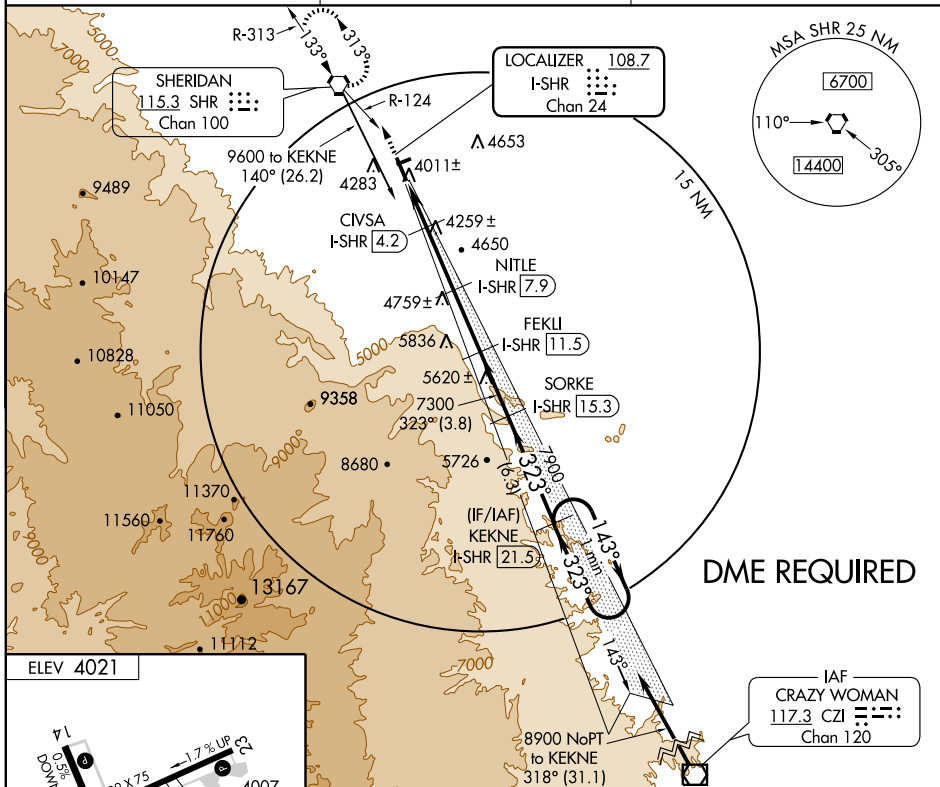
- T** When VGSI inoperative, circling Rwy 5 and 23 NA at night.
A For inoperative MALSR, increase S-LOC 32 Cat D visibility to 1.
If local altimeter setting not received, procedure NA.

MALSr


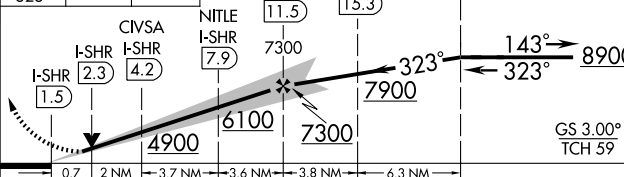


MISSED APPROACH: Climb to 7000 via heading 323° and SHR VORTAC R-124 to SHR VORTAC and hold, continue climb-in-hold to 7000.

ASOS 135.175	SALT LAKE CENTER 127.75 351.9	UNICOM 123.0 (CTAF) ①
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Knots	60	90	120	150	180
Min:Sec					

7000 ↑ 323°		SHR R-124		SHR  115.3		FEKLI I-SHR 11.5		SORKE I-SHR 15.3		KEKNE I-SHR 21.5		One Minute Holding Pattern	
													
CATEGORY		A		B		C		D					
S-ILS 32		4185-½ 200 (200-½)											
S-LOC 32		4260-½ 275 (300-½)										4260-¾ 275 (300-¾)	
CIRCLING		4580-1 559 (600-1)		4600-1 579 (600-1)		4620-1½ 599 (600-1½)		4740-2¼ 719 (800-2¼)					

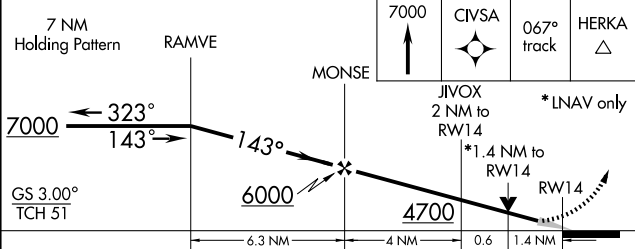
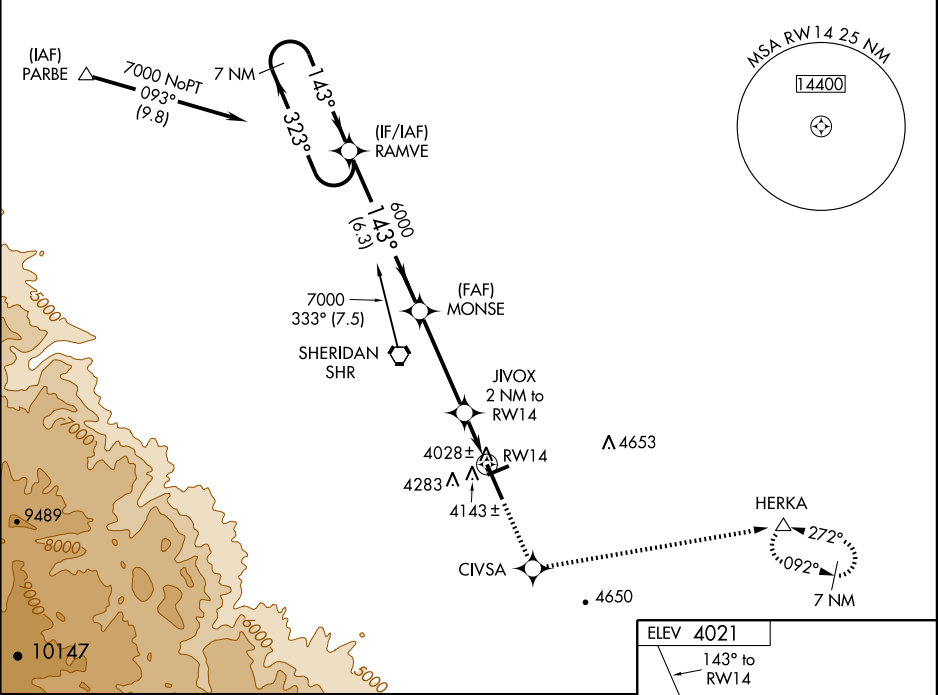
RNAV (GPS) RWY 14
SHERIDAN COUNTY (SHR)

WAAS CH 81899 W14A	APP CRS 143°	Rwy Idg TDZE Apt Elev 8300 4014 4021
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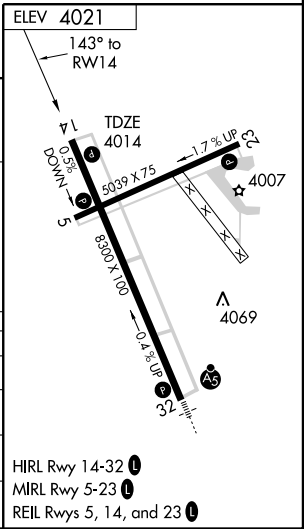
⚠ DME/DME RNP -0.3 NA.
⚠ Baro-VNAV NA below -23°C (-9°F).
When VGSI inoperative, circling Rwy 5 and 23 NA at night.
If local altimeter setting not received, procedure NA.

MISSED APPROACH: Climb to 7000 direct CIVSA and via 067° track to HERKA and hold, continue climb-in-hold to 7000.

ASOS 135.175	SALT LAKE CENTER 127.75 351.9	UNICOM 123.0 (CTAF) 0
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CATEGORY	A	B	C	D
LPV DA		4264-3/4	250 (300-3/4)	
RNAV/VNAV DA		4419-1 1/2	405 (400-1 1/2)	
RNAV MDA	4500-1	486 (500-1)	4500-1 1/4 486 (500-1 1/4)	4500-1 1/2 486 (500-1 1/2)
CIRCLING	4580-1 1/2 559 (600-1 1/2)	4600-1 1/2 579 (600-1 1/2)	4620-1 1/2 599 (600-1 1/2)	4740-2 1/4 719 (800-2 1/4)



WAAS CH 65699 W32A	APP CRS 323°	Rwy Idg TDZE Apt Elev 8300 3985 4021
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RNAV (GPS) RWY 32
SHERIDAN COUNTY (SHR)

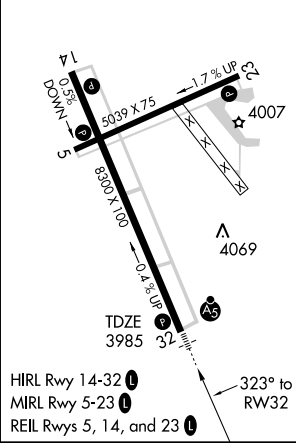
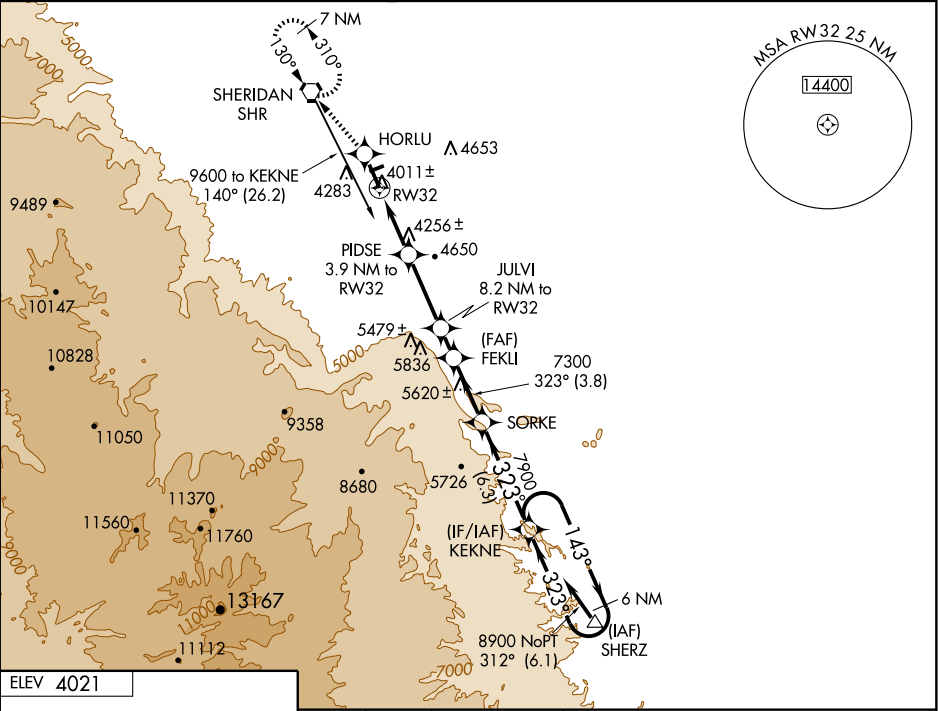
▼ DME/DME RNP- 0.3 NA. Baro-VNAV NA below -23°C (-9°F).

▲ For inoperative MALSR, increase LPV visibility to ¾ all Cats.
When VGSI inoperative, circling Rwy 5 and 23 NA at night.
If local altimeter setting not received, procedure NA.

MALSR

MISSED APPROACH: Climb to 7000 direct HORLU and via 306° track to SHR VORTAC and hold, continue climb-in-hold to 7000.

ASOS 135.175	SALT LAKE CENTER 127.75 351.9	UNICOM 123.0 (CTAF) 0
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7000	HORLU	306° track	SHR	6 NM Holding Pattern
*LNAV only				
PIDSE 3.9 NM to RW32	JULVI 8.2 NM to RW32	FEKLI	SORKE	KEKNE
*1.5 NM to RW32	5280	6700	7300	8900
1.5	2.4 NM	4.3 NM	1.8 NM	3.8 NM
6.3 NM	GS 3.00° TCH 59			
CATEGORY	A	B	C	D
LPV DA	4235-½ 250 (300-½)			
LNAV/VNAV DA	4426-1 441 (500-1)			
LNAV MDA	4520-½	535 (500-½)	4520-1 535 (500-1)	4520-1¼ 535 (500-1¼)
CIRCLING	4580-1½ 559 (600-1½)	4600-1½ 579 (600-1½)	4620-1½ 599 (600-1½)	4740-2¼ 719 (800-2¼)

VORTAC SHR 115.3 Chan 100	APP CRS 128°	Rwy Idg 8300 TDZE 4014 Apt Elev 4021
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VOR RWY 14
SHERIDAN COUNTY (SHR)

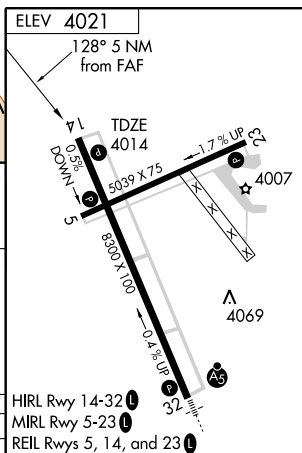
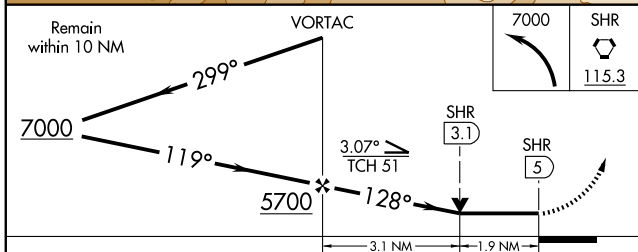
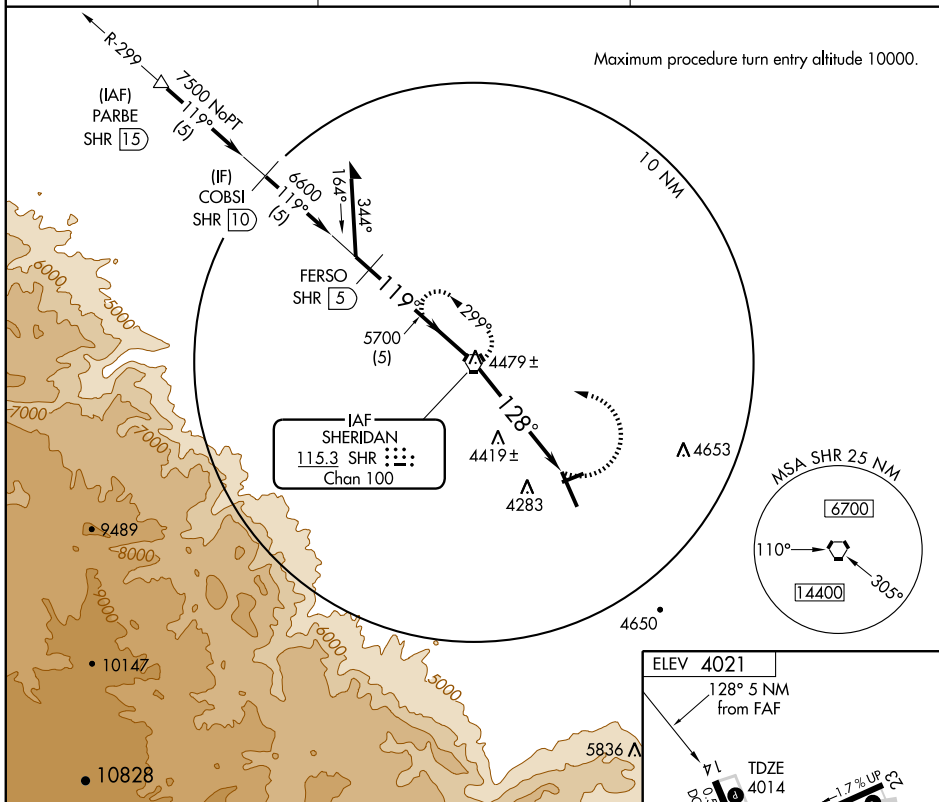
T	If local altimeter setting not received, procedure NA.
A	

MISSED APPROACH: Climbing left turn to 7000 direct SHR VORTAC and hold, continue climb-in-hold to 7000.

ASOS
135,175

SALT LAKE CENTER
127.75 351.9

UNICOM
123.0 (CTAF) **L**



CATEGORY	A	B	C	D
S-14	4680-1	666 (700-1)	4680-1 $\frac{3}{4}$ 666 (700-1 $\frac{3}{4}$)	4680-2 666 (700-2)
CIRCLING	4680-1	659 (700-1)	4680-1 $\frac{3}{4}$ 659 (700-1 $\frac{3}{4}$)	4740-2 $\frac{1}{4}$ 719 (800-2 $\frac{1}{4}$)

FAF to MAP 5 NM					
Knots	60	90	120	150	180
Min:Sec	5:00	3:20	2:30	2:00	1:40

APP CRS	Rwy Idg	5703
284°	TDZE	4200
	Apt Elev	4205

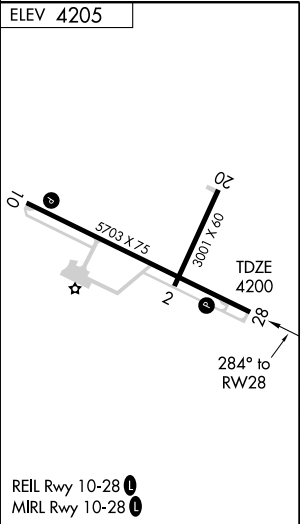
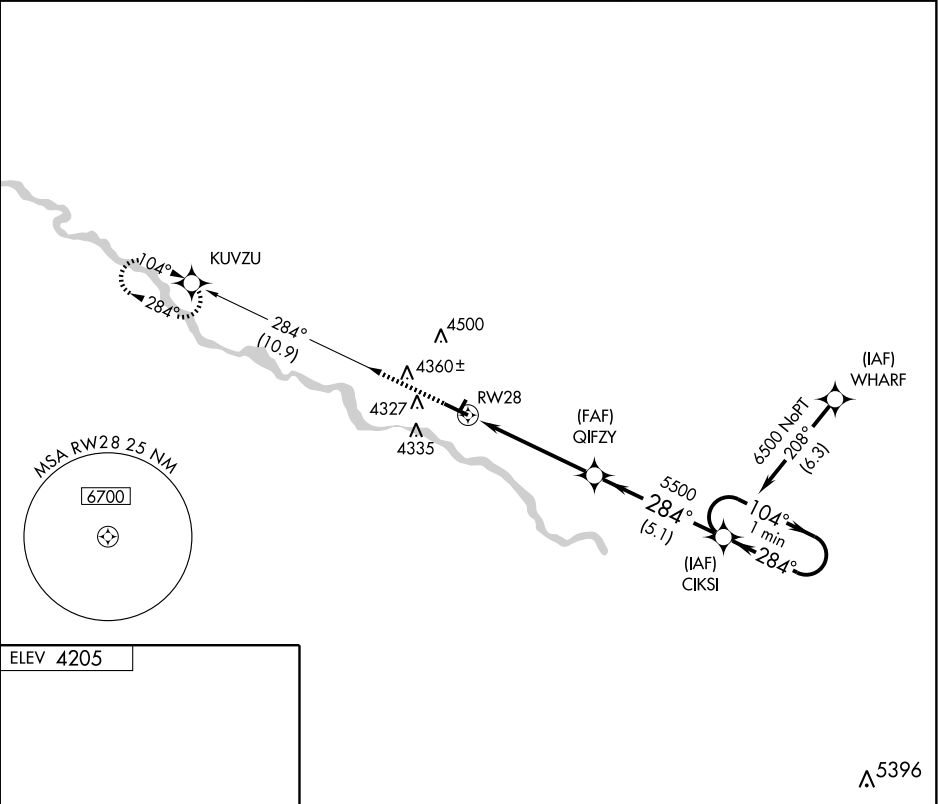
GPS RWY 28
TORRINGTON MUNI (TOR)

▼

▲ NA

MISSED APPROACH: Climb to 6500 via 284° course to KUVZU WP and hold.

ASOS 118.375	DENVER CENTER 127.95 338.2	UNICOM 122.8 (CTAF) 0
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	6500 284° crs	KUVZU					
			QIFZY	5500	CIKSI	One Minute Holding Pattern	
		RW28					
			5 NM	5.1 NM			
CATEGORY	A	B	C	D			
S-28	4620-1	420 (500-1)	4620-1¼	420 (500-1¼)			
CIRCLING	4680-1	475 (500-1)	4680-1½ 475 (500-1½)	4820-2 615 (700-2)			

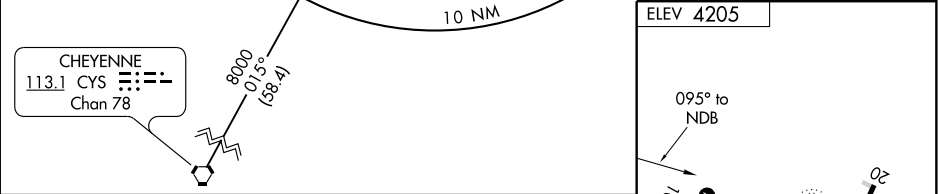
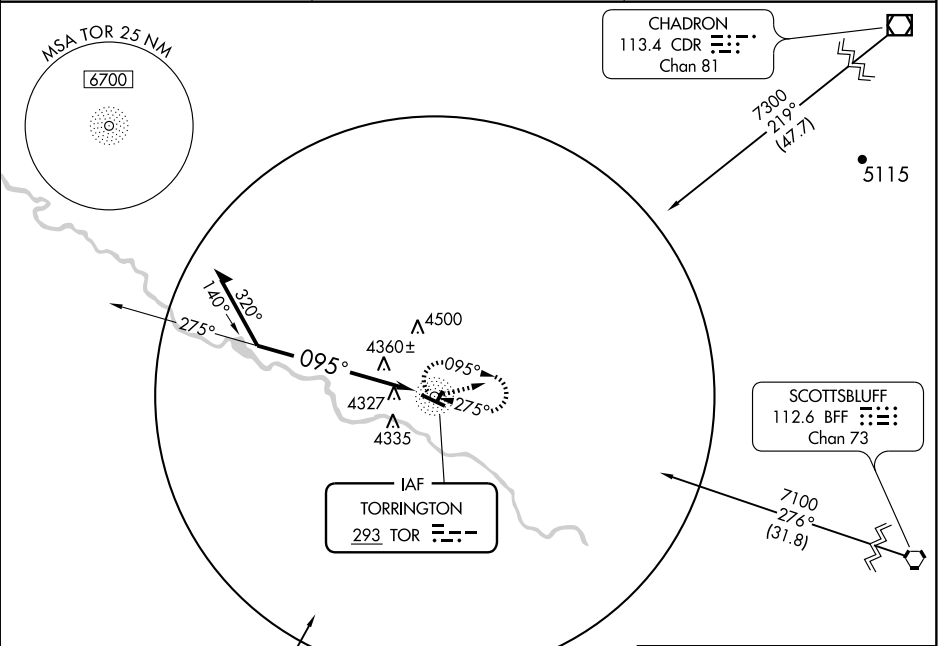
NDB RWY 10
TORRINGTON MUNI (TOR)

NDB TOR	APP CRS	Rwy Idg	5703
293	095°	TDZE	4205
		Apt Elev	4205


NA

MISSED APPROACH: Climb to 6500 in TOR NDB holding pattern.

ASOS 118.375	DENVER CENTER 127.95 338.2	UNICOM 122.8 (CTAF)
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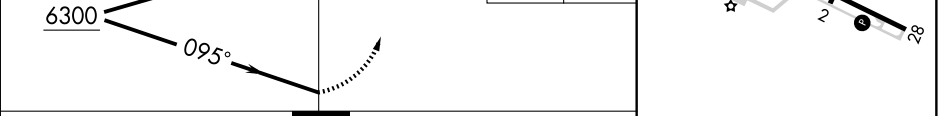


Remain within 10 NM

6300

275° 095°

6500 TOR 293



CATEGORY	A	B	C	D
S-10	4940-1 735 (800-1)		4940-2 735 (800-2)	4940-2 735 (800-2 1/4)
CIRCLING	4940-1 735 (800-1)		4940-2 735 (800-2)	4940-2 735 (800-2 1/4)

REIL Rwy 10-28
MIRL Rwy 10-28

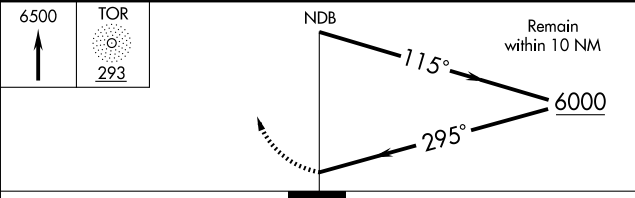
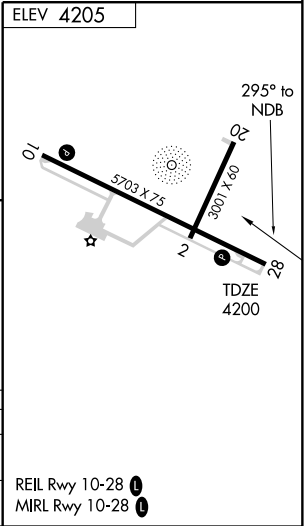
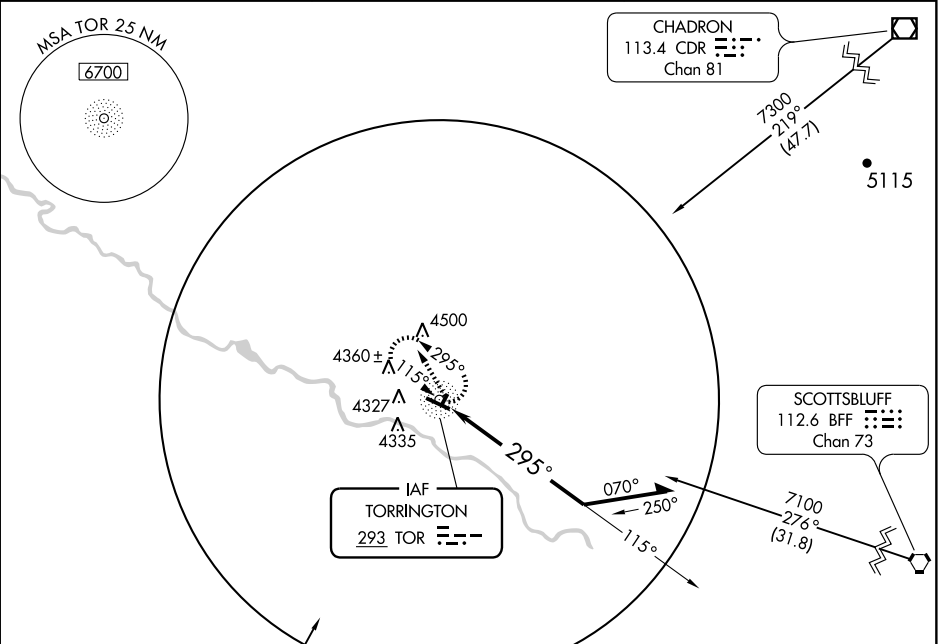
NDB TOR	APP CRS	Rwy Idg	5703
293	295°	TDZE	4200
		Apt Elev	4205

NDB RWY 28
TORRINGTON MUNI (TOR)

NA

MISSED APPROACH: Climb to 6500 in TOR NDB holding pattern.

ASOS 118.375	DENVER CENTER 127.95 338.2	UNICOM 122.8 (CTAF)
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CATEGORY	A	B	C	D
S-28	4720-1 520 (600-1)		4720-1½ 520 (600-1½)	4720-1¾ 520 (600-1¾)
CIRCLING	4720-1 515 (600-1)		4720-1½ 515 (600-1½)	4820-2 615 (700-2)

REIL Rwy 10-28
MIRL Rwy 10-28

APP CRS 260°	Rwy Idg TDZE Apt Elev	N/A N/A 4774
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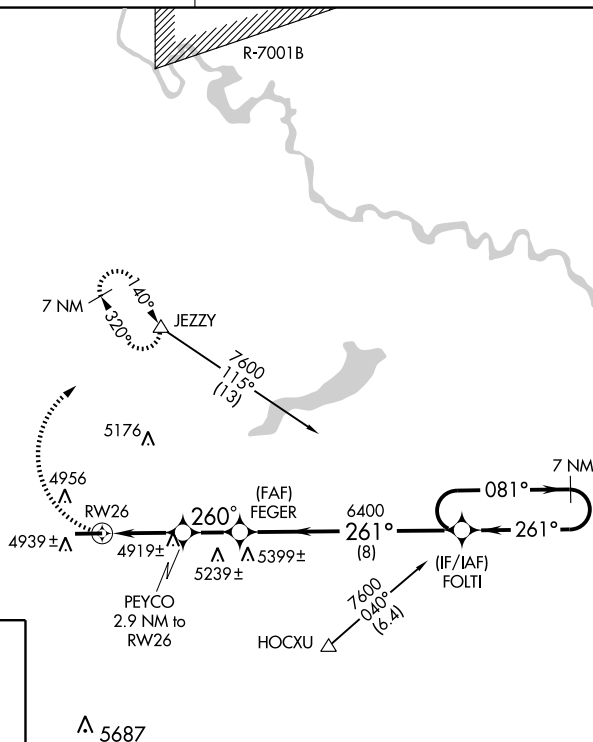
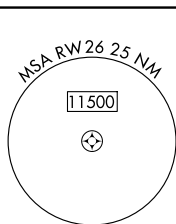
RNAV (GPS)-A WHEATLAND/ PHIFER AIRFIELD (E.A.N.)

▼ DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA.
▲ NA Use Torrington altimeter setting; when not received, use Western Neb. Rgnl/William B. Heilig Field altimeter setting and increase all MDAs 100 feet and visibility Cats B/C ¼ mile.
 Procedure NA at night.

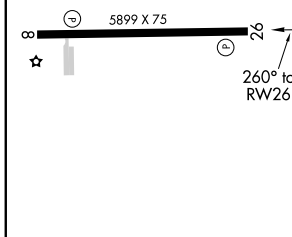
MISSED APPROACH: Climbing right turn to 9000 direct JEZZY and hold, continue climb-in-hold to 9000.

DENVER CENTER
135.6 385.6

CTAF
122.9



ELEV 4774



9000	JEZZY	VGSI and descent angles not coincident.		7 NM Holding Pattern
	PEYCO 2.9 NM to RW26	FEGER	FOLTI	
	3.04° TCH 40	261°	081°	7600
	5740	6400	261°	
	2.9 NM	2 NM	8 NM	
CATEGORY	A	B	C	D
CIRCLING	5440-1 666 (700-1)	5460-1 686 (700-1)	5460-2 686 (700-2)	NA

MIRL Rwy 8-26

WORLAND, WYOMING

AL-801 (FAA)

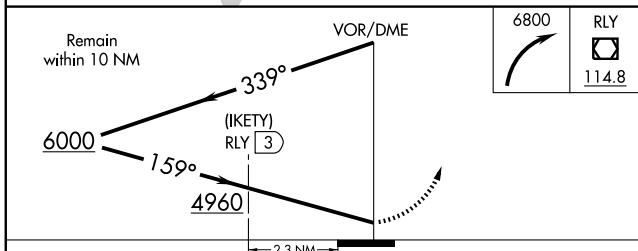
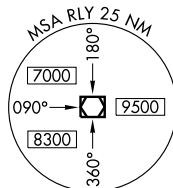
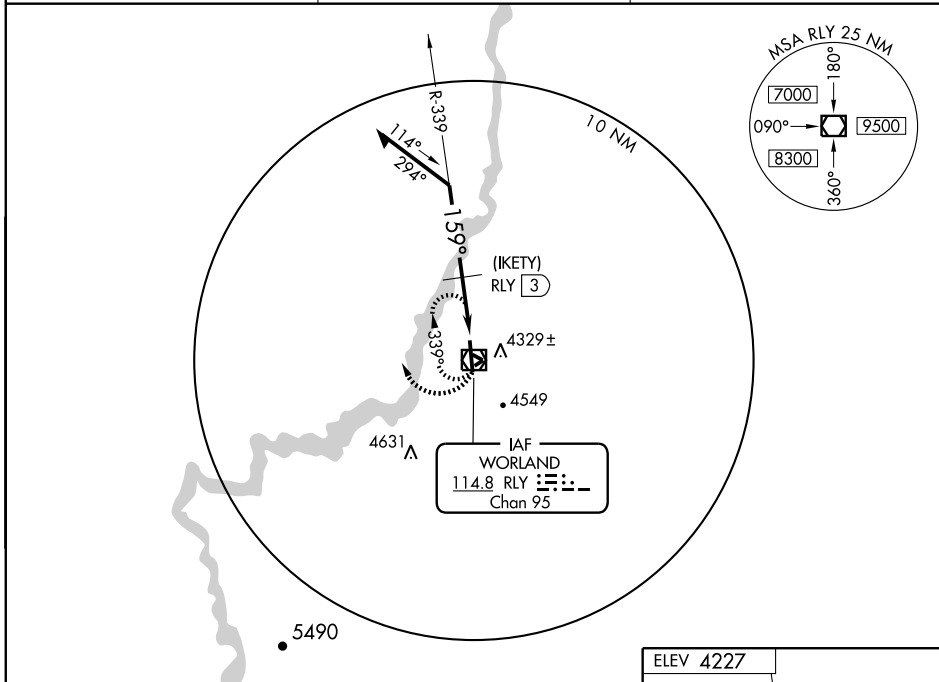
VOR/DME RLY 114.8 Chan 95	APP CRS 159°	Rwy Idg TDZE Apt Elev	7005 4179 4227
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VOR or GPS RWY 16

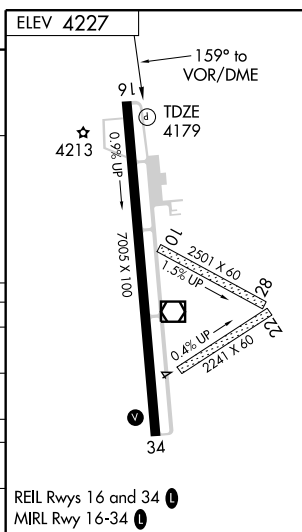
WORLAND MUNI (WRL)

<p>▼ ▲</p>	<p>MISSED APPROACH: Climbing right turn to 6800 in RLY VOR/DME holding pattern.</p>
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<p>ASOS 135.475</p>	<p>SALT LAKE CENTER 133.25 285.6</p>	<p>UNICOM 123.05 (CTAF) 0</p>
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CATEGORY	A	B	C	D
S-16	4960-1 781 (800-1)	4960-1¼ 781 (800-1¼)	4960-2¼ 781 (800-2¼)	4960-2½ 781 (800-2½)
CIRCLING	4960-1 733 (800-1)	4960-1¼ 733 (800-1¼)	4960-2¼ 733 (800-2¼)	4960-2½ 733 (800-2½)
DME MINIMUMS				
S-16	4600-1 421 (400-1)	4600-1¼ 421 (400-1¼)		
CIRCLING	4840-1 613 (700-1)	4900-1 673 (700-1)	4900-2 673 (700-2)	4900-2¼ 673 (700-2¼)



NW-1. 08 APR 2010 to 06 MAY 2010